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ULLETIN

AVANNAH STATE COLLEGE

SAVANNAH, GEORGIA

Savannah State College, a unit of the University System of Georgia, is a College of Arts and Sciences, Teacher Education, Business Administration, and Engineering Technology.

Accredited by

the Southern Association of Colleges and Schools; the State Department of Education; and the National Council for the Accreditation of Teacher Education
Approved by the Veterans Administration

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Requests for catalogs, transcripts, information about admissions, courses offered, and graduation requirements	Registrar
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Inquiries about loans, scholarships, grants-in-aid, and work-study assistance	Director, Financial Aid
Correspondence about student accounts, expenses, and other financial matters	Comptroller
Inquiries concerning personal welfare of students, housing, veterans' affairs, and job placement	Dean of Students
Requests for information about alumni affairs and alumni placements	Alumni Secretary
Inquiries concerning federal programs and community services	Associate Dean for Extended Services
Requests for general information about college publications, gifts and grants, and public relations	Development and College Relations Officer

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THE SAVANNAH STATE COLLEGE BULLETIN

GENERAL CATALOG ISSUE, 1972-1974

SEPTEMBER 1972

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Applications for admission to Savannah State College are considered without regard to race, color, creed, national origin or sex.

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CALENDAR 1972-73

1972

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THE COLLEGE CALENDAR 1972-73

FALL QUARTER, 1972

Applications for admission to Savannah State College should be filed as early in the year of high school graduation as possible in order to insure adequate processing for proper admission. Following the approval of applications students will be given the opportunity to take the Freshman Placement and Psychological Examinations so that the College can plan for their enrollment in the Fall.

April		
1		Last day for students to file applications for financial assistance for the entire 1972-73 academic year. Any assistance needed for any quarter should be requested by this date.
July		
6	Thursday	University System Examinations for Rising Juniors

September		
12	Tuesday	Last day to file requests for refund of admission and room deposits. (See Explanation of Fees.)
18	Sunday	Entering students arrive. All Residence Halls open for entering students
17	Monday	Dining Hall opens beginning with breakfast
18-20	Monday-Wednesday	Freshman Orientation
18-19	Monday-Tuesday	Freshman Placement and Psychological Examinations
20	Wednesday	Chest X-rays for entering students, 8:30 - 12:00 noon. Residence Halls open for continuing students.
21	Thursday	Registration for Juniors and Seniors, 8:30 a.m. - 4:30 p.m. Registration for graduate students and evening and Saturday only undergraduate students, 4:00-8:00 p.m.
22	Friday	Registration for Freshmen, Sophomores, and transfer students, 8:30 a.m. - 4:30 p.m. Chest X-rays for continuing students, 8:30 - 12:00 noon
22-28	Friday-Thursday	Application for admission to teacher education
23	Saturday	Registration for *all students,* 8:30 a.m. - 12:00 noon. Regular registration ends, 12:00 noon
25	Monday	Classes begin, 8:00 a.m.
25-26	Monday-Tuesday	Registration with payment of late fee of $5.00
26	Tuesday	Last day for admission to class with regular registration class admit cards
27	Wednesday	First day for adding and dropping courses
October		
3	Tuesday	Last day for adding courses
9	Monday	Last day of eligibility for refund for reduced loads
13	Friday	Last day for filing for admission to student teaching for Winter Quarter
27	Friday	Reporting of Mid-quarter and incomplete grades to the Registrar
November		
23-26	Thursday-Sunday	Thanksgiving Recess
27	Monday	Classes resume
28	Tuesday	Last day for dropping courses
14-28	Tuesday-Tuesday	Pre-Advisement for Winter Quarter Registration
December		
4	Monday	Classes end at close of the day
5	Tuesday	Preparation for examinations, make-up of incomplete work
7	Thursday	Last day for filing applications and paying admission and room deposits for winter quarter
6	Wednesday	Final Examinations for Lower Level Multi-section Classes
8-9	Thursday-Friday	Final Examinations - All Other Classes

8	Friday	Last day for filing requests for refund of admission and room deposits (See Explanation of fees) Fall Quarter Ends.

WINTER QUARTER, 1973

January		
2	Tuesday	Residence Halls open at 8:00 a.m. Dining Hall opens at 12:00 noon
3	Wednesday	Registration for Juniors and Seniors, 8:30 a.m. - 4:30 p.m. Graduate and evening and Saturday only students, 4:00 p.m. - 8:00 p.m.
3	Wednesday	Placement examination - 8:30 a.m. - 4:30 p.m.
4	Thursday	Registration for entering students, Freshmen, Sophomores, 8:30 a.m. - 4:30 p.m.
4-10	Thursday-Wednesday	Application for admission to teacher education
5	Friday	Classes begin
5-8	Friday-Monday	Registration with payment of late fee of $5.00
9	Tuesday	First day for adding courses
12	Friday	Last day for adding courses
26	Friday	Last day of eligibility for refund for reduced load
27	Saturday	Last day for filing applications for June graduation
February		
1	Thursday	University System Examination for Rising Juniors
8	Friday	Reporting of Mid-quarter Deficient grades and grades for removal of "I's" to Registrar's Office
16	Friday	Honors Day Convocation
17	Saturday	Examination, History of the U.S. and Georgia
23	Friday	Last day for filing for admission to student teaching for Spring Quarter
28	Wednesday	Last day for dropping courses
14-28	Wed.-Wed.	Pre-ADVISEMENT FOR SPRING QUARTER REGISTRATION
March		
5	Monday	Last day for filing requests for refund of admission and room deposits. (See Explanation of fees)
9	Friday	Classes end at close of day
12	Monday	Final Examinations - Lower Level Multi-section classes
13-14	Tuesday-Wednesday	Final Examinations - All regular classes other than Multi-section classes
14	Wednesday	Winter Quarter Ends

SPRING QUARTER, 1973

March		
22	Thursday	Registration for Spring Quarter - Juniors and Seniors, 8:30 a.m. - 4:30 p.m. Graduate, Evening and Saturday only students, 6:30 - 9:00 p.m.

March		
23	Friday	Registration - Entering students, Freshmen and Sophomores, 8:30 a.m. - 4:30 p.m. Regular registration ends.
26-30	Monday-Friday	Application for admission to teacher education
26	Monday	Classes begin. Class admit cards required Late Registration with payment of $5.00 fee Last day of Late Registration Last day for admission to class with regular registration class admit cards
27-30	Tuesday-Friday	Add and Drop Period. All additions of classes must be completed during this period.
April		
6	Friday	Last day of eligibility for refunds for reduced class loads
17	Tuesday	University System Examination for Rising Juniors
18	Wednesday	Spring Recess begins at 12:00 noon
25	Wednesday	Spring Recess ends at 12:00 noon
28	Friday	Applications due for Regent's Scholarships
May		
3	Thursday	Reporting of Mid-quarter deficient grades to the Registrar
11	Friday	All-College Assembly - Awards Day
1-14	Tuesday-Monday	Advisor-Advisee Conferences on Student Progress, Pre-Advisement for Summer and Fall Quarter Registration
15	Wednesday	Last day for dropping courses
17	Friday	College level Examination Program (Sophomore Comprehensive)
14-25	Monday-Friday	Filing for admission to student teaching for the 1973-1974 school year
29	Tuesday	Classes end at close of day
30	Wednesday	Final Examinations: Lower-Level Multi-section classes only
31-June 1	Thursday-Friday	Final Examinations: All other classes
June		
1	Friday	Spring Quarter Ends.
3	Sunday	Commencement

SUMMER QUARTER, 1973

Regular Sessions (9 Weeks)	June 11 - August 10
Six-week Session	June 11 - July 20
Three-week Session	July 23 - August 10

CALENDAR - SUMMER QUARTER - 1973

May		
22	Tuesday	Last day for filing admission applications and paying admission and room deposits.
June		
1	Friday	Last day for filing requests for refund of admission and room deposits.
11	Monday	Registration.
11	Monday	High School Validation and Freshman Placement Examinations, 9 a.m., A. V. Center.
12	Tuesday	Classes begin. Late registration fee and last day of registration and adding courses (Six-week Session).
12	Tuesday	Classes begin. Registration with payment of late fee (Regular Quarter).
14	Thursday	Last day for adding courses (Regular Quarter).
14	Thursday	Last day for registration with payment of late fee (Regular Quarter).
July		
2	Monday	University System Examination for Rising Juniors.
4	Wednesday	Holiday (Fourth of July).
14	Saturday	Comprehensive Examinations, 9:00 a.m.
16-17	Monday Tuesday	Mid-quarter Examinations.
19	Thursday	Reporting of mid-quarter deficient and incomplete grades to the Office of the Registrar.
20	Friday	Final Examinations for Six-week courses.
21	Saturday	Constitution Examination, 9:00 a.m., Payne 208.
23	Monday	Registration for Three-week Session. No late registration permitted.
August		
3	Friday	Last day for dropping courses.
8	Wednesday	Classes end.
9-10	Thursday Friday	Final Examinations.
10	Friday	Summer Quarter ends - Commencement.

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B.S.M.E., University of Nebraska; M.S., Iowa State University

Madeline H. Dixon ..... *Library Science*
Catalog Librarian
B.S., Fisk University; B.S.L.S., North Carolina College;
M.S.L.S., University of Illinois

Norman B. Elmore ..... *English*
B.S., Savannah State College; M.A., New York University

Ella W. Fisher ..... *Physical Education*
B.S., Xavier University; M.Ed., Temple University

Albert E. Frazier ..... *Physical Education*
B.S., Tuskegee Institute; M.A., Arizona State College

Samuel A. Gill ..... *Music*
B.S., Savannah State College; M.A., Teachers College, Columbia University

[2]John R. Hansen ..... *Mathematics*
Armstrong State College
B.S., Troy State College; M.Ed., University of Georgia

[3]Robert Holt ..... *English*
B.S., North Carolina A. and T. College; M.A., State University of Iowa

Alexander B. Horsfall ..... *Business Administration*
A.B., M.B.A., Harvard University

Dorothy Hamilton James ..... *Education*
B.S., Fort Valley State College; M.A., Atlanta University

Abbie W. Jordan ..... *Reading*
B.S., Albany State College; M.A., Atlanta University

Christopher D. Koch ..... *German*
A.B., Columbia University; M.A., Michigan State University

Arthur T. Kolgaklis ..... *Business Administration*
B.S., Georgia Institute of Technology; M.B.A., Harvard Graduate School of Business

Cornelia V. Lawson ..... *Education*
B.S., Florida State University; M.Ed., University of Southern Mississippi; D.Ed., University of Arkansas

Walter W. Leftwich ..... *Mathematics*
B.S., West Virginia State College; M.S.P.H.E., North Carolina College at Durham

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[3]On leave 1972-73

Farnese H. Lumpkin ..... *Art*
B.S., Bluefield State College; M.A., State University of Iowa

Michael K. Maher ..... *English*
B.A., Loras College; M.A., University of Georgia

John L. Mason ..... *Engineering Technology*
B.S., Bluefield State College; B.S.C.E., Howard University

Yvonne H. Mathis ..... *English*
B.S., Savannah State College; M.A., New York University

Althea V. Morton ..... *French*
A.B., Spellman College; M.A., Atlanta University

John H. Myles ..... *Physical Education*
B.S., Savannah State College; M.S.Ed., New York University

Christine E. Oliver ..... *Music*
B.A., Bennett College; M.M.Ed., Indiana University

[3]Leo Richardson ..... *Biology*
B.S., Morris College; M.A., Tuskegee Institute

Jay T. Smith ..... *Trade and Industrial Education*
B.S., Alcorn A & M College; M.S., Bradley University; Ed.D., University of Missouri

[3]Jacqueline W. Stephens ..... *Education*
B.S., Savannah State College; M.S., Illinois State University

William A. Stephenson ..... *English*
B.A., Pan American College; M.A., Texas Tech University

[3]Robert L. Stevenson ..... *English*
B.S., M.S., Tennessee A. & I. State University

Frank D. Tharpe ..... *Industrial Education*
B.S., Savannah State College; M.S., Iowa State College

James Thompson, Jr. ..... *Music*
B.A., North Carolina College; M.M.Ed., University of Michigan

Paul Chung-lien Tien ..... *Engineering Technology*
B.S.E.E., National Taiwan University; M.S.E.E., University of South Carolina; Ph.D., University of South Carolina

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[3]On leave 1972-73

Gerald L. Vertrees ..... *Biology*
A.B., M.A., University of California; Ph.D., Indiana University

Richard K. Washington ..... *Physical Education*
B.S., M.S., State University of Iowa

Alma S. Williams ..... *English*
A.B., Spelman College; M.A., Atlanta University; M.M., University of Maryland

Instructors

Ruby C. Black ..... *Education*
Coordinator, Career Opportunities Program
B.S., Savannah State College; M.Ed., University of Georgia

Ernest S. Brown ..... *Industrial Arts Education*
B.S., Savannah State College; M.S., Bradley University

Ollie V. Buckner ..... *Naval Science*
B.S., Prairie View A & M, LTJG, USNR

Ralph N. Churchwell, III ..... *Naval Science*
B.S., Tennessee State University, LCDR, USN

David O. Dinwiddie ..... *Naval Science*
B.S., Ohio State University, Lt., USN

Frank Ellis, Jr. ..... *Physical Education*
B.S., Savannah State College

James Farinholt ..... *Mathematics*
A.B., University of Dayton

Barbara A. Harper ..... *Reading*
B.A., Tuskegee Institute; M.A., Atlanta University

Paula Sue Hayes ..... *English*
A.B., University of Alabama; M.Ed., University of Florida

Gaye H. Hewitt ..... *History*
B.A., University of Hawaii; M.A., East Texas State University

Clyde E. Howart ..... *Art*
B.S., Florida A & M University

[3]Lester B. Johnson, Jr. ..... *Industrial Arts Education*
B.S., Hampton Institute; M.Ed., South Carolina State College

Wilda G. Johnson ..... *Reading*
B.A., Clark College; M.A., Atlanta University

Fred L. Jones ..... *Naval Science*
B.S., Oregon State University, Capt., USMC

Ernestine Lang ..... *Early Childhood Education*
B.S., Savannah State College

Willie G. McLemore ..... *Reading*
B.S., Alabama A and M College; M.A., Atlanta University

Emogene S. Middleton ..... *Guidance and Counselling*
A.B., Morris Brown College; M.Ed., Georgia Southern College

Oswald L. Mikell ..... *Naval Science*
A.B., Brown University, Lt., USN

John M. Parr ..... *Engineering Technology*
B.S.G.E., Georgia Institute of Technology, Part-time

Delacy W. Sanford ..... *History*
B.S., Savannah State College; M.A., Duquesne University

Dorothy D. Smith ..... *Mathematics*
B.S., Savannah State College; M.S., South Carolina State College

Charlease T. Stevenson ..... *Business Education*
B.S., Allen University; M.S., Indiana University

Willie M. Waddell ..... *Business Administration*
B.S., Savannah State College; M.S., New York University

Samuel O. Williams ..... *Biology*
B.S., Fort Valley State College; M.A., Atlanta University

ADMINISTRATIVE STAFF

Felix J. Alexis ..... *Superintendent, Buildings and Grounds*
A.B., Xavier University

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[3]On leave 1972-73

Walter Anderson ..... *Dormitory Director, A. E. Peacock Hall*

Juanita Bryant ..... *Dietitian*
B.S., Clark College

Rachel Claiborne ..... *Director of Testing Guidance and Student Activities*
A.B., Claflin College; M.Ed., South Carolina State College

George Conlin ..... *Director, Accounting Systems and Procedures*
B.S.B.A., Boston University

Donald Cook ..... *Manager, Computer Center*
B.S., Savannah State College

Beautine W. Hardwick .. *Administrative Assistant to the President*
B.S., Savannah State College

Mildred Henry ..... *College Nurse*
R.N., Tuskegee Institute

Josephine F. Hubert ..... *Director, Secretarial Center*
B.S., Savannah State College

Shirley B. James ..... *Counselor*
B.S., Spelman College; Ed.M., Harvard University

[3]Leonard Jenkins ..... *Assistant to the Registrar*
B.S., Savannah State College

Gwendolyn Jones ..... *Assistant College Nurse*
L.P.N., Savannah Vocational-Technical School

Venkataratnam Koganti .... *Accountant, Office of the Comptroller*

Henri Lambert ..... *Assistant College Nurse*
L.P.N., Harris Area Trade School

Elease C. Lawton ..... *Dormitory Director, Lester Hall*

Stephen M. McDew, Jr. ..... *College Physician*
B.S., Savannah State College; M.D., Meharry Medical College

Laura McGraw ..... *Secretary to the Dean of the College*
B.S., Savannah State College

[3]On leave 1972-73

John W. Merritt ..... *Procurement Officer*
Savannah State College

Percy L. Miller ..... *Postmaster*
Savannah State College

Floyd Mincey ..... *Director, Student Union*
B.S., Savannah State College

Tommie Mitchell ..... *Director, Financial Aid*
B.S., Savannah State College

Robert Mobley ..... *Director, Instructional Media Center*
B.S., Savannah State College

Carolyn S. Morris ..... *Dean of Women*
B.S., Savannah State College; M.S., Savannah State College

Alvin Ogden ..... *Manager, Warehouse*

Jerome L. Pinkston, Jr. ..... *Administrative Assistant to the Dean and President*
B.B.A., Texas Southern University

Harold Singleton ..... *Director, Auxiliary Enterprises*
B.S., Savannah State College

Doris R. Taylor ..... *Dormitory Director, Lester Hall*
Savannah State College

Elmer Thomas ..... *Alumni Secretary*
B.S., Savannah State College

Arthur L. Walker ..... *Dormitory Director, Wright Hall*
B.S., Savannah State College

Herbert C. White ..... *Assistant Superintendent Buildings and Grounds*
B.S., Alabama A. and M. College

Samuel Williams ..... *Dean of Men*
B.S., Savannah State College; B.D., Howard University

Jacquelyn Wilson ..... *Dormitory Director, J. R. Lockette Hall*
B.S., Stillman College

CLERICAL STAFF

Delores Aaron ..... *Secretary, Warehouse*

Magdaline Allen ..... *Clerk, Library*

Jayalakshmi Ananthanarayanan ..... *Secretary, Secretarial Center*
B.S., Madras University

Nonie R. Arkwright ..... *Secretary*
Office of Development and College Relations
Harris Area Trade School

Beverly Barnes ..... *Keypunch Operator*
Office of the Registrar

Lillie Baul ..... *Records Clerk*
Office of the Registrar

Martha Brown ..... *Secretary, Secretarial Center*

Carolyn Bush ..... *Secretary, Bookstore*
Savannah Vocational School

Betty Cohen ..... *Clerk, Library*

Laverne B. Cooper ..... *Secretary*
Office of the Dean of the College

Eleanor R. Courts ..... *Receptionist*
Office of the Registrar

Emma Ellington ..... *Secretary, Student Union*

Dorothy Ellison ..... *P.B.X. Operator*

Roland Flynn ..... *Personnel Clerk*
Office of the Comptroller

Doris H. Jackson ..... *Cashier*
Office of the Comptroller
B.S., Savannah State College

Juanita Jackson ..... *Administrative Assistant*
Office of Development and College Relations
B.S., Savannah State College

Maxine Jackson ..... *Bookkeeping-Machine Operator*
Office of the Comptroller
B.S., Savannah State College

Constance Jenkins ..... *Secretary, Buildings and Grounds*
B.S., Savannah State College

Lou Arie Jenkins ..... *Secretary*
Department of Secondary Education
Savannah Vocational School

Hilda R. Johnson ..... *Secretary*
Developmental Education Program
Shorts Secretarial School

Juanita Johnson ..... *Secretary*

Velma Johnson ..... *Procurement Clerk*
Office of the Comptroller
B.S., Savannah State College

Ann Logan ..... *Secretary*
Division of Business Administration

Charlene Manigault ..... *Admissions Clerk*
Office of the Registrar

Mary Miller ..... *Records Clerk*
Office of the Registrar

Lois Milton ..... *Administrative Secretary*
Office of Graduate Studies
B.S., Savannah State College

Margaret Mitchell ..... *Clerk, Library*

Erma M. Mobley ..... *Secretary, Home Study*
B.S., Savannah State College

Gloria Moore ..... *Key Punch Operator*
Computer Center

Ruby G. Morris ..... *Accounting Clerk*
Office of the Comptroller
Harris Area Trade School

Savita Raut ..... *Accounting Clerk*
Office of the Comptroller

Evelyn Richardson ..... *Clerk, Library*
B.S., Savannah State College

Marion P. Roberts ..... *Secretary*
Office of the Comptroller
A.B., South Carolina State College

Robena Roberts ..... *Bookkeeping-Machine Operator*

Betty Saxby ..... *Clerk, Library*

Rosalee Seabrooks ..... *Clerk, Library*

Anthony Sheffield ..... *Accounting Clerk*
Office of the Comptroller
B.S., Savannah State College

Jacquelyn Small ..... *Secretary*
Office of the President

Brenda G. Smith ..... *Secretary, Division of Natural Sciences*
Savannah Vocational School

Martha K. Stafford ..... *Secretary, Division of Technical Sciences*
B.S., Savannah State College

Julie Tremble ..... *Clerk*
Office of Development and College Relations
Savannah Vocational School

Darnell Walker ..... *Accounting Clerk*
Office of the Comptroller
B.S., Savannah State College

Rachel Walker ..... *Clerk, Library*

Mildred S. Washington ..... *Administrative Secretary*
Student Personnel
Albany State College

Jeannette Westley ..... *Accounting Clerk*
Office of the Comptroller
B.S., Savannah State College

Thomasina White ..... *Secretary, Division of Education*
B.S., Savannah State College

Florence B. Williams ..... *Secretary*
Department of Mathematics and Physics
B.S., Savannah State College

Marva Williams ..... *Secretary, Dining Hall*

Cledith Young ..... *Transcript Clerk*
Office of the Registrar
Savannah Vocational School

Jeroline Zeigler ..... *Clerk, Department of English*
Harris Area Trade School

EXTENDED SERVICES STAFF

Emergency School Assistance Program

Edna Jackson ..... *Project Director*

Rosemary Banks ..... *Deputy Director for Programming*

Marcia Byrd ..... *Secretary*

Eugene Gadsden ..... *Community Specialist*

Millie R. German ..... *Secretary*

Dan Hiers ..... *Deputy Director for Training*

Augustus Howard .. *Assistant Coordinator for Community Services and Editor*

Muriel James ..... *Training Specialist*

Jeffrey Jenkins ..... *Coordinator for Community Services*

Robert Mathews ..... *Community Services*

Dessie Robinson ..... *Human Relations Specialist*

Joyce Stiles ..... *Human Relations Specialist*

Samuel Truell ..... *Training Specialist*

Benjamin White ..... *Training Specialist*

David Whiteis ..... *Training Specialist*

Daniel Wright ..... *Community Specialist*

Project Seek

Helen B. Gresham ..... *Project Director*

Matthew S. Brown ..... *Field Counselor*

Edith L. James ..... *Senior Counselor and Programmer*

Mary G. Tootle ..... *Counselor*

Doretha S. Tyson ..... *Vocational Counselor*

Special Services and Developmental Education

Henton Thomas ..... *Project Director*

Alvin Collins ..... *Counselor-Activities Director*

Bettye Anne Battiste ..... *Academic Specialist*

Benjamin F. Harris ..... *Academic Specialist*

Emogene S. Middleton ..... *Counselor*

Dorothy D. Smith ..... *Instructor-Mathematics*

Barbara Harper ..... *Instructor-Reading*

Willie G. McLemore ..... *Instructor-Reading*

Wilda Johnson ..... *Instructor-Reading*

Hilda R. Johnson ..... *Secretary*

Upward Bound Project

Ella W. Fisher ..... *Project Director*

Willie M. Robinson ..... *Administrative Assistant*

Janie B. Bruen ..... *Reading-Instructor*

Eddie M. Bonaparte ..... *Communication Skills*

Norman B. Elmore ..... *Communication Skills*

Michael Gibbs ..... *Art-Instructor*

Mamie M. Hart ..... *Great Issues-Instructor*

Gaye Hewitt ..... *Great Issues-Instructor*

Walter Leftwich ..... *Mathematics-Instructor*

Althea Morton ..... *French-Instructor*

Violet Singleton ..... *Mathematics-Instructor*

SECURITY STAFF

Mathew H. Howard ..... *Chief of Security*

Maurice Von Bowers ..... *Security Officer*

Edward Lewis, Jr. ..... *Security Officer*

Steve J. Taylor ..... *Sergeant of Security*

Oriest Thomas ..... *Security Officer*

George Williams ..... *Security Officer*

Isaiah Williams ..... *Security Officer*

GENERAL INFORMATION

HISTORY

By Act of the General Assembly on November 26, 1890, the State of Georgia "established in connection with the State University, and forming one of the departments thereof, a school for the education and training of Negro students." By the same Act, the Governor was empowered to appoint "five fit and discreet persons, residents of the State, to be known as the Commission on School for Negro students." This commission was to "procure the grounds and buildings necessary for the establishment of the school," to prescribe a course of training to be provided for all the students in said school, "embracing the studies required by the Acts of the Congress of the United States, approved July 2, 1862, and August 30, 1890, making donations of public lands and the proceeds thereof to the States and Territories for educational purposes."

It was further enacted that "the said school, when so established, shall be part of the University of Georgia," and the Commission named in the Act appointed by the Governor, "shall constitute the local Board of Trustees for the School, with perpetual succession." This commission was given immediate control, supervision and management of the school, subject to the general Board of Trustees of the University of Georgia. The Chairman of the local Board of Trustees was made ex-officio member of the general Board of Trustees of the University, and the Chancellor of the University of Georgia was given general supervision of the school.

A preliminary session of the school was held between June 1, and August 1, 1891, at the Baxter Street School building in Athens, Georgia, by direction of the Commission to Chancellor Boggs. Richard R. Wright, the first principal, and three other instructors constituted the faculty. In the following year the school was relocated at its present site which is approximately five miles southeast of the Courthouse of Savannah, Georgia, partly in Savannah and partly in Thunderbolt. At this time the Commission referred to the institution as "The Georgia State Industrial College for Colored Youths." It selected a faculty consisting of Major Wright as President, instructors in English, mathematics, and natural sciences, a superintendent of the mechanical department, and a foreman of the farm.

During the thirty years that Major Wright served as President, the enrollment increased from 8 to 585; the curriculum was built up to

four years of high school training and a normal division; and training was begun in agriculture and the mechanical arts. Starting the school with 86 acres of land on which two buildings and a farm house were erected, Major Wright added four frame trade buildings, Meldrim Hall (1896), Hill Hall (1901), a dairy barn and creamery (1904), a shoe repair shop, laundry, and home economics building (1915).

Several changes were made during the presidency of C. G. Wiley (1921-1926). During his first year of service, the Commission admitted young women as boarders. The first regular summer school was conducted between June 26, and August 4, 1922. In 1925 the General Assembly of Georgia changed the form of the governing body for the institution from a Commission with "perpetual succession" to a Board of Trustees with a four-year term of office.

During the administration of the third President, Dr. Benjamin F. Hubert (1926-1947), the entire academic program was reorganized. The high school and normal departments were discontinued and the school became a four-year college, offering the bachelor's degree in agriculture and home economics.

In 1931, the State, upon the advice of a special committee of authorities in education which had been invited to make a study of the University System, placed the entire System under a Board of Regents. At that time the College began to offer degree programs with majors in English, the natural sciences, social sciences, and business administration.

Until 1947, the College served as the state land-grant institution for Negroes. In that year this function was assumed by Fort Valley State College.

During the administration of President James A. Colston (1947-1949), the faculty was strengthened and improvements were made in the physical plant. Among the programs that were launched at this time were the Alumni Scholarship Drive, Campus Chest, Annual Men's Day, Religious Emphasis Week, Freshman Week, and the Cultural Artists Series. Expanded programs of student personnel services and public relations, a reading clinic, and an audio-visual aids laboratory were instituted under the leadership of President Colston.

Dean W. K. Payne became acting president of the College on September 1, 1949. The Regents of the University System of Georgia changed the name of the College from Georgia State College to Savannah State College on January 18, 1950. Dr. Payne became the fifth President of the College on March 1, 1950; he served in this capacity until his death on July 26, 1963.

At the beginning of Dr. Payne's administration, Savannah State College was granted membership in the American Council on Education. During the course of his administration the curriculum was expanded and improved and the institution was admitted to membership in the Southern Association of Colleges and Schools. In addition, the academic program of the College was organized under seven divisions—Business Administration, Education, Humanities, Natural Sciences, Social Sciences, Technical Sciences, and Home Study.

Under the inspired leadership of Dr. Howard Jordan, Jr. (November 1, 1963 through January 31, 1971), significant, far-reaching and innovative programs were initiated in all aspects of the College's development. Curricula improvements in the general education program, in teacher education, and in business administration, as well as other areas, were carried forward. A graduate studies program in elementary education was initiated in the summer of 1968. The mantle of educational leadership at Savannah State College passed from Dr. Jordan to Dr. Prince A. Jackson, Jr. on February 1, 1971.

Many of the improvements and innovations begun during President Jordan's administration came to fruition during the first year of Dr. Jackson's tenure. At the time of his appointment, the new President was chairman of the Division of Natural Sciences and director of the Institutional Self-Study which resulted in reaccreditation of the College by the Southern Association of Colleges and Schools in December, 1971. During that same year the College was accredited by the National Council for the Accreditation of Teacher Education (NCATE). President Jackson, the first alumnus of the College to become its President, is providing vigorous and dynamic leadership geared to the task of increasing all of the College's resources and employing them to meet more effectively the rising aspirations of Black Americans and other disadvantaged persons for a richer and more rewarding life.

GRADUATE STUDIES

In 1967 the Board of Regents of the University System of Georgia authorized Savannah State College to offer courses and related experiences leading to the Master of Science degree in elementary education. From June 1968 until August 1971, this program was in operation, graduating a total of forty-one persons with the masters degree.

The graduate program at Savannah State College was merged into a joint program with Armstrong State College of Savannah by action

of the Board of Regents effective September 1, 1971. In addition to the masters degree in elementary education, courses are now being offered leading to the degree of Master of Business Administration. It is anticipated that during the 1972-73 school year, final approval will be given to offer courses leading to the masters degree in the secondary education options of Chemistry, Biology, General Science, English, Mathematics, and History and Political Science.[1] Other options are in the planning stages, to be offered later.

Admission to the graduate program is restricted to persons who hold the baccalaureate degree from accredited colleges and who indicate ability to pursue successfully graduate work. Persons desiring courses for their personal enrichment may be admitted under certain conditions.

Complete information on admission requirements, courses, and academic policies may be found in the separate catalog for the graduate program which may be obtained by writing the Graduate Studies Office either at Savannah State College, Savannah, Georgia 31404, or at Armstrong State College, Savannah, Georgia 31406.

Buildings and Grounds

The campus, comprising 136 acres, presents a unique setting of natural beauty. Among its 40 buildings are three constructed during the administration of the first president, Major Richard R. Wright, which are still in use — Meldrim Hall (1896), Hill Hall (1901), and Hammond Hall (1915). All of these buildings have been extensively renovated since their erection. Meldrim Hall, which had been burned, was rebuilt in 1926.

During the administration of Dr. Benjamin F. Hubert, the following buildings were added to the physical plant: Adams Hall (1931), Willie Hill Powell Laboratory School (1932), shops for masonry and auto mechanics (1935), Morgan Hall (1936), Willcox Gymnasium (1936), Herty Hall (1937), Camilla Hubert Hall (1938), Hodge Community House (1941), Incubator House (1941), three teachers' cottages, a cannery and farm shop building (1943), trades building (1947), and poultry houses.

An infirmary and two temporary buildings — a fine arts structure and a student center — were erected during the administration of Dr. Colston.

[1]These programs were approved in July, 1972.

An extensive building program was begun in 1951 during the administration of Dr. W. K. Payne. Wright Hall (men's dormitory), a library, the technical sciences building, a central heating plant, and a sewage disposal system were completed. Construction was begun on a dormitory for women, which was completed in the summer of 1964. A four-unit, all-weather, tennis court has been erected across from the old athletic field.

In the fall of 1965, the Board of Regents approved the following names for buildings which had been erected during Dr. Payne's administration: the Asa H. Gordon Library; Janie L. Lester Hall (a dormitory for young women); and Benjamin F. Hubert Technical Sciences Center. Dr. Gordon served as dean of the college from 1928 to 1936 and as director of research and publications from 1937 until 1941. Miss Lester rendered distinguished service to the College for a quarter of a century and was dean of women at the time of her death in 1951.

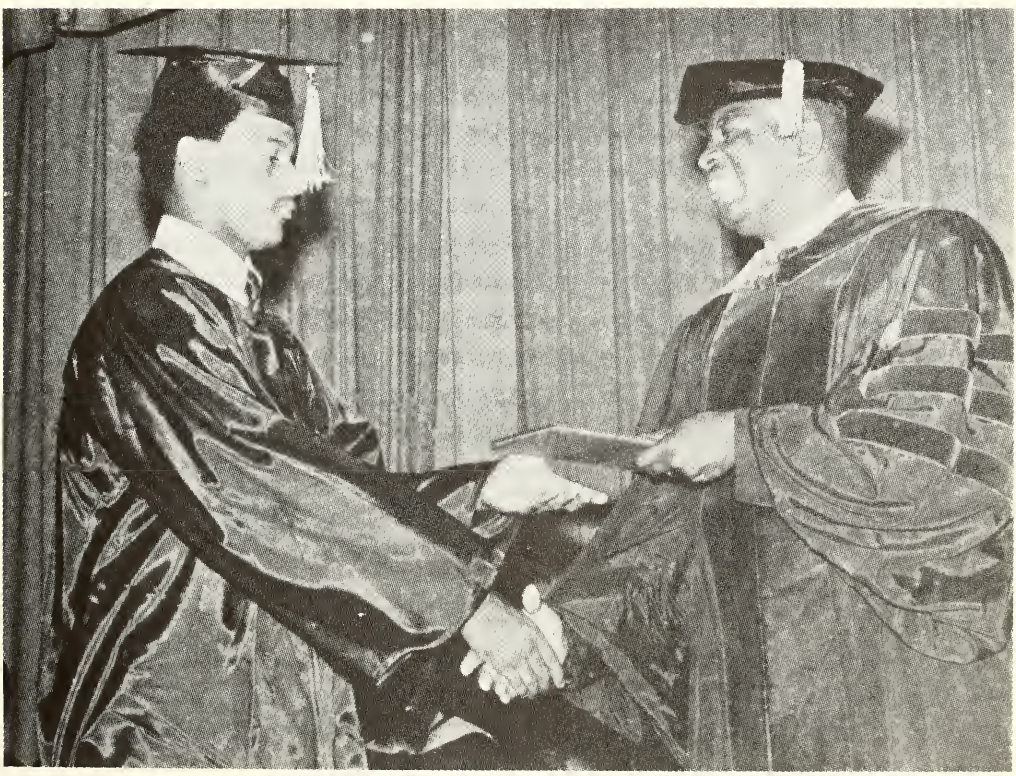
Rapid progress was made in developing an expanded building program under the leadership of President Howard Jordan, Jr. At the beginning of the 1965-1966 school year, recently completed buildings were occupied for the first time: (1) W. K. Payne Hall, a two-story air-conditioned classroom building consisting of fifteen classrooms, office space for thirty-two instructors, data processing facilities, a language laboratory, a reading clinic, and an administrative area; (2) Lockett Hall, a dormitory for 180 young women, which was named in honor of Professor and Mrs. John A. Lockett who were associated with the College for many years; and (3) an annex to Wiley Gymnasium consisting of a swimming pool, classrooms, and additional spectator seating for indoor sports. In addition, the John F. Kennedy Fine Arts Center, which includes a little theater, was occupied for the first time in the Winter Quarter of 1967, and the A. E. Peacock Hall, a dormitory accommodating 180 men, was completed and occupied in the spring of 1967. Built near the north entrance to the campus, Peacock Hall is a modern three-story building consisting of 90 studio type bedrooms, a lobby, recreational area, an apartment for the house director, a barber shop, a room for television viewing, and a laundromat. Tiger Stadium, on the West Campus, was constructed in 1967. The last building to be completed during President Jordan's administration is the Martin Luther King, Jr.,-Vannetta Frazier Complex, a modern structure which serves as the Student Center and Dining Facility. Two other buildings, a new women's residence hall and a new science building, were begun while Dr. Jordan was president, but were completed in 1971, after Dr. Jackson had assumed that position. A new men's residence hall was completed in 1972.

THE LIBRARY

A modern library with a well-prepared staff serves the college and community. It houses over 75,000 cataloged volumes, approximately 1,000 periodicals subscriptions, over 90,000 microforms, and 9,238 bound periodicals. Approximately 8,000 volumes are added yearly to keep the collection up to date. There is an extensive collection of materials by and about the Negro.

This air-conditioned, modular structure provides excellent library facilities. There are two main reading rooms with open stacks, a seminar room, lounging area, instructional media center, and a curriculum materials center. The latter affords prospective and in-service teachers an opportunity to examine and use recently published instructional materials. There is also a music room equipped with individual earphones and recordings of the best music. The library is the cultural and intellectual center of the College and community.





HONORS DAY, 1972

PURPOSES AND OBJECTIVES OF THE COLLEGE

Savannah State College, a unit of the University System of Georgia, is a college of Arts and Sciences, Teacher Education, Business Administration, and Engineering Technology.

The College is strongly committed to the general philosophy of formal education which aims at the development of intellectual, vocational, physical, and social competence of the individual student, no matter what his future specialty may be. It also realizes that the aim of education is not only to enrich the minds of the students with new knowledge, but also to help them rise to their fullest spiritual and moral stature. In addition, the College acknowledges and accepts a special responsibility to encourage and assist the revolution of rising expectations among disadvantaged Americans. With these factors in view, the College seeks to provide an educational and social environment designed to overcome any motivational and/or educational deficits which the student might have, and then to help the student, whether he be disadvantaged or advantaged, to expand his knowledge, broaden his outlook, and develop his talents and individuality to the end that he can become a creative and active participant in the drama of life.

The College, therefore, has several missions to fulfill. It affords students an opportunity to acquire the kind of education that will enable them to contribute effectively to American society's continuing effort to become more democratic and more just at home and in its relations with other members of the world community. It also provides continuing educational and cultural services for the people of Georgia and the larger community. Although emphasis has been placed on teaching and learning with the students at the core, the College also strives to utilize its facilities for the advancement of the welfare of the faculty, staff, and citizens of the immediate community which it serves. Thus, it is cognizant of the need to encourage subsidized institutes in order to upgrade in-service teaching. The College is also aware of the need to motivate faculty-student participation and involvement in community development programs.

Consistent with the above philosophy and purpose, the institution has several major objectives to cultivate the student's intellectual, artistic, cultural, and physical capacity to earn a respectable and responsible position in society. They are designed to help a student:

1. To gain basic preparation, knowledge, and skills necessary to the satisfaction of his personal needs as well as the needs of home and society.

2. To acquire specialized training in one of the many available areas, and to develop individual talents and intellectual curiosity which are essential to further study and progress.

3. To broaden his understanding and appreciation of his own as well as other cultures.

4. To develop an understanding of mental, emotional, and physical health, and to practice habits that are conducive to sound personal and community health.

5. To acquire a motivation for self improvement, and to attain an awareness of social and civic responsibilities in order to carry out effectively the duties and obligations of good citizenship.

To attain these objectives, the College offers formal instruction organized within seven divisions: Business Administration, Education, Humanities, Natural Sciences, Social Sciences, Technical Sciences, and Military Science. Additionally, in pursuit of these goals, the College:

A. Selects and upgrades teachers, counselors, personnel workers, and administrative and auxiliary personnel.

B. Gives students due responsibility in making their own educational decisions with advice of the faculty, through their participation in the government of the College and a program of extracurricular activities.

C. Draws upon available intellectual, cultural, and technical resources to enrich the lives of the students.

The total resources of the College are dedicated to the student's mental, physical, and emotional maturity.

STUDENT ACTIVITIES AND SERVICES

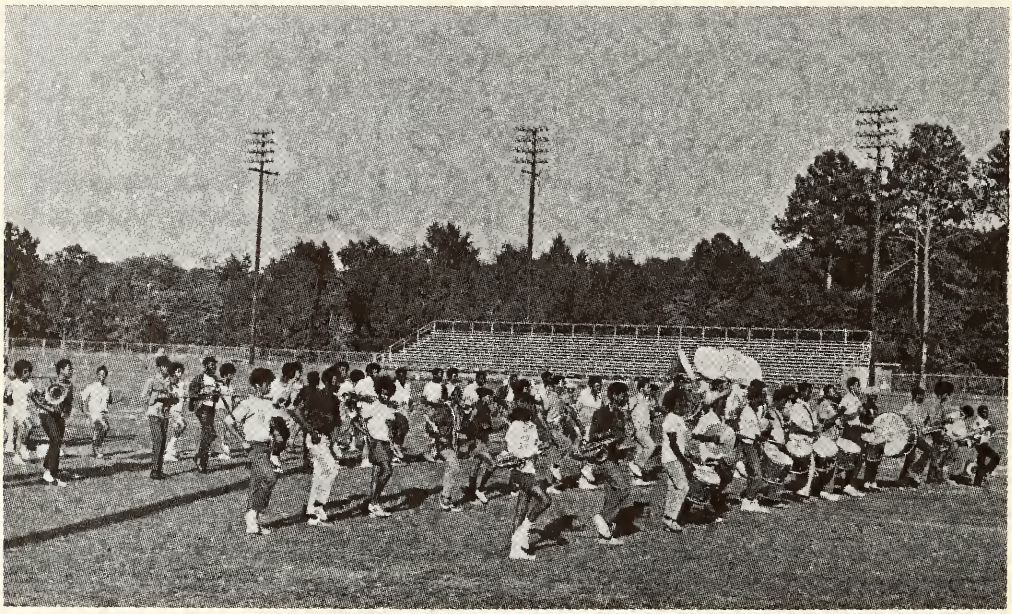
Savannah State College makes a concerted effort to insure wholesome personal development and growth for those students who reside in its dormitories. Residence halls for men and for women are equipped with essential furniture. Students provide their own bed linen, blankets, towels, bedspreads, and scarfs.

Residential life of women students is supervised by the Dean of Women and head residents. Through dormitory clubs, the women

students help to plan dormitory activities and participate in developing standards of conduct and determining social regulations for the groups.

Dormitory life for men is supervised by the Dean of Men and the head resident. Practice in democratic living is provided through dormitory organization, enabling the men to work with the staff in planning projects, stimulating achievement, and promoting optimum personal development.

All out-of-town students are required to live in the dormitories and use the dining facilities as long as space is available in the dormitories.



THE MARCHING BAND REHEARSES

STUDENT CONDUCT

Each student enrolled at Savannah State College is expected at all times to exemplify due respect for order, morality, and the rights of others.

The College reserves the right to exclude at any time any student whose conduct is deemed improper or prejudicial to the welfare of the college community.

RELIGIOUS LIFE

Savannah State College puts great emphasis upon a rich and varied religious life program. Through its religious activities, the College

seeks to develop an understanding of and an appreciation for the place of religion in everyday living, to deepen spiritual insight, and to make the practice of religious principles a vital part of the life of the well educated citizen.

Religious life activities are directed by the College Minister. The Sunday School, YMCA and YWCA, and the annual Religious Emphasis Week provide opportunities for religious growth and development under the supervision of the Religious Life Committee.

POLICY ON USE OF DRUGS

The possession or use (without valid medical or dental prescription), manufacture, furnishing, or sale of any narcotic or dangerous drug controlled by federal or Georgia law is prohibited. Violators are subject to arrest and prosecution.

STUDENT PERSONNEL SERVICES

The Dean of Students at Savannah State College is responsible to the President for the over-all administration of the student personnel program. The Dean of Men and the Dean of Women share with the Dean of Students the administration of the student personnel program with primary responsibility as it pertains to male and female students respectively.

In the broadest sense, the student personnel program is concerned first with the life of the student outside the classroom. This definition, however, is inadequate as every person involved in student personnel work at the College, as is true of the faculty and other administrative officers, is deeply interested in the academic work of our students. The intellectual development of the student is and must continue to be the primary objective of Savannah State College.

The rationale for having an effective student personnel program is that among those engaged in the process of learning, the students who are best equipped to gain most from individual study are the ones who have been properly selected for college, are physically and emotionally healthy, are well-adjusted and strongly motivated, are pursuing programs of studies suited to their interests, aptitudes, and abilities, have had minimized their financial and personal problems, have reasonable recreational and social opportunities, and are adequately housed and properly fed.

The purpose of the student personnel program is the establishment of these optimum conditions for each student. It should be noted, however, that these objectives are not exclusively the province of the student personnel staff as the entire faculty and staff are involved in their fulfillment.

The doors of the office and the services of the student personnel staff are never closed to those students who need and seek help.

Orientation

The orientation program is under the supervision of the Office of Student Affairs. It is designed to assist new students in becoming acquainted with other students, with college regulations, with routine procedures, with campus traditions, with the opportunities offered for training here, and with specialized vocational guidance. This program concentrates on all freshmen and new students entering the College in the first week of the fall quarter. Students derive from the program their immediate informational needs.

A follow-up course dealing with the psychology of human relationships, required of freshmen and transfer students, is designed to facilitate the process of total adjustment to college and to guide the student's thinking in reference to the social forces that affect him daily.

Counseling and Guidance

A counseling and guidance service is provided for all students through the offices of the Dean of Students and his staff. Professional counseling and services are provided students in the following areas: admissions, scholarships, work aid, health, religious values, social activities, job placement, and general life planning. Advisors in all departments provide counseling for course registration and problems that arise in connection with the academic work and progress of students. The duties of the advisor are to assist the student in selecting subjects, to aid him in interpreting the requirements, to guide him in important matters. In case of any proposed change in his program, a student should consult his advisor, who will judge the reason for the change and make recommendation to the Dean of Faculty. However, a student may not change his major during the registration period, nor during the week before and the week after registration. The responsibility for selection of courses rests, in the final analysis, upon the student. It is the primary duty of the student to meet the requirements of his curriculum. A request from the advisor to the student for conference should be complied with promptly.

Health Services

The college health services are maintained to improve and safeguard the health of students. These services are under the direct supervision of the school physician and the school nurse. Medical examinations, medical care, and health consultations are provided for all students. Harris Infirmary, a modern, eighteen-bed building, is provided for students who require treatment or confinement for minor illnesses.

Veterans Services

The Veterans Counselor is responsible for assisting veterans and dependent children (orphans of veterans) in receiving benefits from the Veterans Administration. He collects and disseminates information to veterans and dependent children, and counsels with them throughout the year about regulations and directives peculiar to their status.

All the curricula of Savannah State College are fully approved by the Veterans Administration for veterans and dependent children.

Veterans and dependent children are urged to report personally to the Veterans Counselor immediately after their admission to the College.

STUDENT ACTIVITIES

Savannah State College contributes to the attainment of a well-rounded education by providing many opportunities for students to participate in a wide range of significant activities. Through the efforts of organized groups, programs are planned for the social, religious, and cultural advancement of the college community.

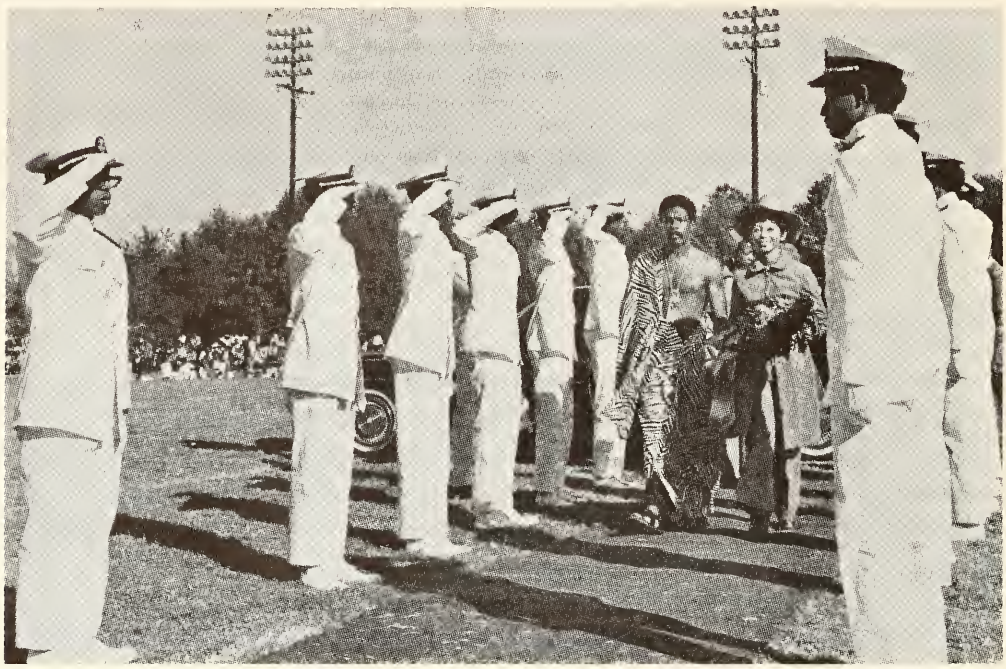
Student Government Association

The Student Government Association, composed of representatives of all classes, works with the administration in the governance of the college. It works also with the various campus organizations and sponsors projects for the general welfare of the student body.

Music

The choral society, band, and men's glee club are open for membership to all students interested in music. Grants-in-aid are available in limited amounts for qualified applicants. These groups perform not only locally but also throughout the state and country.

HOMECOMING — 1971



NROTC Midshipmen Form Honor Guard for Miss Savannah State



NROTC DAY — 1971

Publications

Students are trained in various phases of publicity by working with the College Press Service.

The *Tiger's Roar,* official student newspaper, is published every six weeks by students under supervision of the Public Relations Office. The college yearbook, *The Tiger,* is a schoolwide student project which is published through the Public Relations Office.

Clubs

A number of organizations provide for expression of student interests: Archonian Club, Association of Women Students, Aurora Club, Art Club, Business Club, Camilla Hubert Hall Council, Chemical Society, College Playhouse, Creative Dance Group, Crescent Club, English Club, French Club, German Club, Home Economics Club, Ivy Leaf Club, Lampodas Club, Marshal Board, Newtonian Society, Physical Education Majors Club, Pyramid Club, Scrollers Club, Social Science Club, Spanish Club, Sphinx Club, Student Loan Association, Student Georgia Association of Education, Technical Science Association, and Wright Hall Council.

Honor Societies, Fraternities, and Sororities

In addition to Kappa Delta Pi, the national honor societies, Alpha Kappa Mu, Beta Kappa Chi, and Sigma Tau Delta, have chapters on the campus and hold membership in the Association of College Honor Societies.

The national social fraternities organized on the campus include Alpha Phi Alpha, Alpha Phi Gamma (journalism), Alpha Phi Omega (service), Kappa Alpha Psi, Phi Beta Sigma, and Omega Psi Phi.

The national social sororities organized on the campus are Alpha Kappa Alpha, Sigma Gamma Rho, Zeta Phi Beta, and Delta Sigma Theta.

These organizations sponsor rich and varied programs designed for the intellectual and social development of all who take part.

Recreation and Sports

The Department of Health, Physical Education, and Recreation conducts a well-rounded intramural athletic program of seasonal activities for men and for women. Utilizing group games and various sports for their full educational and health values, the program

features football, basketball, track and field, tennis, golf, baseball, softball, volley-ball, field hockey, badminton, and swimming.

A member of the Southeastern Intercollegiate Athletic Conference, Savannah State College maintains competition in all sports sponsored by the conference. Savannah State College also holds membership in two national athletic associations, NCAA and NAIA.

Qualified instructors in the Department of Health, Physical Education, and Recreation provide training in the several aspects of the required activity program. Recreational activities, social dancing, swimming and free exercise activities are encouraged and centered in this area. The department makes every effort to provide wholesome recreational activities for all students.

Cultural Activities

To complement formal education on the campus, the College provides many activities for cultural enrichment. Student assemblies, institutes, motion pictures, lectures, art exhibitions, drama, forums, hobby groups, and tours contribute to the general enrichment of the college community.

The Committee on Campus Life brings to the campus renowned concert artists. All students are encouraged to attend these formal activities which afford inspiring association with outstanding personalities.

The Department of Fine Arts sponsors several musical programs and art exhibitions during the school year. The Christmas and Spring Concerts, together with the annual Fine Arts Festival celebrating National Music Week during the first week in May, are significant events in the cultural program of the College.

FINANCIAL ASSISTANCE

Work Assignments

Worthy and industrious students may help to meet college expenses through part-time employment, provided they maintain satisfactory scholastic averages. These work opportunities include such jobs as clerical and stenographic aide, library aide, waiting tables, pantry and kitchen aide, and skilled and unskilled maintenance work.

Students who plan to apply for part-time work should note carefully:

1. No student should attempt to enter Savannah State College unless he is prepared to pay the major part of his total college expenses.

2. All students are required to pay all entrance expenses when they register. Money earned through part-time work may thereafter be credited to the monthly account.

Students are assigned to work only after they have been admitted and have arrived on the campus. Work assignments are made by the Director of Financial Aid.

Scholarships and Loans

A limited number of special scholarships are available to selected students who meet the required standards of scholastic merit, high character, general promise, and superior achievement in certain specific areas of the college program.

Regents' State Scholarships

The Board of Regents of the University System of Georgia sponsors a program whereby Georgia residents who are currently enrolled at Savannah State College and prospective students who are residents of the State of Georgia may qualify for Regents' State Scholarships. These scholarships were established for the purpose of assisting students of superior academic ability who need financial aid in order to attend college. These scholarships are competitive and eligibility is determined by a student's performance on the CEEB SAT V and M scores and high school or college cumulative grade average. Applications are handled through the Office of the Dean of Students.

Rosenzweig Scholarship Fund

This scholarship was established in 1964 through the generosity of the late Mr. Abraham Rosenzweig and his family and is awarded each year to a junior student with the highest cumulative grade-point average. This scholarship is given at the annual Awards Day program and the selection is made by the Scholarship Committee.

National Defense Student Loan Fund

Savannah State College is a participating institution under the National Defense Education Act of 1958, and student loans are made

available to students who are currently enrolled at the College and to prospective students through the National Defense Student Loan program. Student loans are made on the bases of need, scholastic ability, good moral character, and future promise. Applications are handled through the Office of Financial Aid.

State of Georgia Student Loans

Any student currently enrolled at Savannah State College and prospective students who are residents of Georgia may apply for a student loan through the Georgia Higher Education Assistance Corporation. Student loans under this program are made by banks or other lending institutions and the State will pay the interest on the loans while the student is attending Savannah State College. All loans made under this program are repayable after graduation from college with interest at a rate not to exceed six per cent. Applications may be secured from the Office of Financial Aid or the Georgia Higher Education Assistance Corporation, Suite 838, Hurt Building, Atlanta, Georgia.

Pickett and Hatcher Educational Fund

This fund was established by the late Mr. Claud Adkins Hatcher of Columbus, Georgia, for the purpose of helping worthy and deserving students in the pursuit of their college education. Applications and additional information may be secured from the Pickett and Hatcher Educational Fund, P. O. Box 2128, Columbus, Georgia.

Law Enforcement Education Program

This program is intended to develop professional law enforcement officers through higher education. It provides educational opportunity through financial aid and is directed to students having the ability and desire to provide professional performance in the criminal justice system.

Two types of financial aid are provided:

1. A loan not to exceed $1,800 per academic year for full time study toward a certificate, associate or higher degree in areas (directly) related to and required in law enforcement; and

2. Grants not to exceed $200 per quarter for part-time study of degree-creditable courses related to and useful in law enforcement.

Grants are limited to law enforcement officers, and loans are available to full-time students, pre-service or in-service. An eligible officer may also qualify for a loan if he is both a full-time student and a full-time employee.

Students are carefully selected, taking into consideration their sincerity and willingness to pursue careers in criminal justice.

ADMISSIONS

Savannah State College operates on the quarter plan with the fall, winter, spring and summer quarters. Applicants for admission may qualify for enrollment at the beginning of any quarter by meeting all requirements listed in this section.

Persons who wish to enroll as students at Savannah State College must present evidence of good moral character, adequate ability, sound health, and interest in a specific course of study which is offered by one of the divisions of the college.

Each applicant for admission is required to make formal application and to submit such credentials as may be needed to support it. The application form may be obtained from the Director of Admissions. In order to insure adequate processing of the request for admission, the applicant should file his application as early as possible in his high school senior year, but not later than twenty days prior to registration for the quarter in which the applicant wishes to enter.

An application cannot be considered until the application blank has been properly executed and returned to the institution. The application form, a transcript of the applicant's previous academic work, results of the College Entrance Examination Board Scholastic Aptitude Test (SAT), a report of physical examination, and $10.00 (non-refundable) application fee must be submitted to the Director of Admissions. Transcripts should be mailed directly from the applicant's former schools to the Director of Admissions.

Savannah State College reserves the right to refuse to accept applications at any time when it appears that students already accepted for the quarter for which the applicant wishes to enroll will fill the institution to its maximum capacity. The college also reserves the right to reject an applicant who is not a resident of Georgia.

Savannah State College reserves the right to require that any applicant for admission shall take appropriate intelligence, aptitude, and physical examinations in order to provide information bearing on his ability to pursue successfully courses of study in which he wishes to enroll, and the right to reject any applicant who fails to pass such examinations.

ADMISSION TO THE FRESHMAN CLASS

An applicant for admission to the freshman class must be qualified to do college work, and he must be of good moral character. The college shall have the right to examine and appraise the character, personality, and physical fitness of the applicant. In order that this examination and appraisal may be made, the applicant shall furnish to the college such biographical information as the college may request.

1. An applicant for admission to the freshman class must have taken the College Entrance Examination Board Scholastic Aptitude Test, and must meet the following conditions:

a. He must be a graduate of an accredited high school or of a high school that is approved by Savannah State College.

b. To be admitted without condition, he must have satisfactorily completed 16 units of work in an approved high school with a cumulative grade-point average of not less than "C".

2. The distribution of high school units should be as follows: English—4; mathematics—2; history—2; biological and physical sciences—2; social science—2; optional—4.

The college reserves the right to reject any or all credits from any high school notwithstanding its accredited status when the college determines through investigation or otherwise that the quality of instruction at such high school is for any reason deficient or unsatisfactory. The judgment of the college on this question shall be final.

3. An applicant must submit a recommendation from his high school principal in addition to the official transcript of his high school credits.

4. An applicant may secure information on the College Entrance Examination Board Scholastic Aptitude Test from high school principals or guidance officers. Such information may also be secured from the Director of Admissions at Savannah State College or from the College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey 08540. The College Entrance Examination Board will send a report on the scores made by any applicant to Savannah State College at his request. This report should reach the Director of Admissions at least twenty days before the registration date for the quarter for which the applicant wishes to enroll.

5. Each applicant shall take such additional tests as are required by the regulations of Savannah State College. The Director of Admissions will notify the applicant of such tests and of the time and place at which they will be conducted.

6. An applicant for admission must pay an application fee of $10.00. The fee is applied toward processing and handling of the application, and is not refunded regardless of whether or not the student is accepted.

7. An applicant who fails to enroll for the quarter for which he is accepted must re-apply for admission if he wishes to enter the institution at a later time.

SUMMER TRIAL PROGRAM

Students who do not qualify for regular admission may be admitted on a trial basis in the Summer Quarter only. Two (2) courses or ten (10) hours of regular college work may be undertaken by them. If the student is successful (achieving a 'C' average), he may then be admitted to regular standing in the Fall Quarter, or any subsequent quarter, as a regular freshman, fully eligible for college work. Any work completed satisfactorily during the trial period may be credited toward regular college work.

ADMISSION TO ADVANCED STANDING

A limited number of transfer students may qualify for admission each quarter. General policies governing admission of transfer students and acceptance of credit toward advanced standing are as follows:

1. All regulations applicable to students entering college for the first time shall be applicable to students transferring from other colleges, insofar as the regulations are pertinent to the applications of transfer students.

2. A student transferring from another college will supply the Director of Admissions with transcripts of his records at colleges previously attended. These transcripts must be sent directly from the registrars at the previous colleges to the Director of Admissions. The Director of Admissions will determine the applicant's academic qualifications on the basis of these transcripts.

An applicant will not be considered for admission unless transcripts of his record show honorable discharge from colleges attended.

3. A student transferring from another college must show that at some time he has taken the College Entrance Examination Board Scholastic Aptitude Test, or that he has taken an equivalent test approved by Savannah State College. Scores on such tests must be submitted to the college.

4. Students transferring to Savannah State College must submit to the Director of Admissions a personal letter giving full explanation of their reason for desiring to transfer, their work experiences, studies, activities, special interests, and plans for the future.

5. Students transferring to Savannah State College must make a $10.00 (non-refundable) deposit under conditions explained in Item 6, "Admission to the Freshman Class."

6. Persons who have earned grades of "C" or higher in courses taken at accredited colleges and who—in the judgment of the Committee on Admissions—have presented otherwise satisfactory credentials may be admitted. Those courses which are equivalent in both time and content to courses offered at Savannah State College may be counted towards advanced standing, except that courses completed with grades below "C" shall be repeated if required for the degree at Savannah State College. (This section is inapplicable to persons transferring from member institutions within the Georgia University system.)

7. A student may not receive credit for more than three years' work at another college.

8. Credit allowed for hours completed in either extension or correspondence courses shall not exceed 45 quarter hours.

9. A transfer student who has earned excessive credit in freshman and sophomore courses may not be granted credit in excess of 90 quarter hours below the junior class level.

10. The college reserves the right to reject any or all credits from other institutions notwithstanding their accredited status when it determines through investigation or otherwise that the quality of instruction at such institutions is for any reason deficient or unsatisfactory. The judgment of the college on this question shall be final.

11. Courses accepted as credits for a degree must have been completed within eight years, counting from the time the first credits were acquired until the time all requirements for the degree have been met.

12. The evaluation of transfer credit is given a student upon admission. The college reserves the right to disallow transfer credit for courses if a student's subsequent grades in required courses in the same subject fall below average.

TRANSIENT STUDENTS

A student who has taken work in a college may apply for the privilege of temporary registration at Savannah State College. Such a student will ordinarily be one who expects to return to the college in which he was previously enrolled.

The following policies shall govern the admission of students with transient status:

1. The admissions officer of Savannah State College must be furnished evidence that the institution the student previously attended was an accredited or approved institution.

2. An applicant will be accepted as a transient student only when it appears that the applicant's previous academic work is of a satisfactory or superior quality. The Director of Admissions shall have the right to require the applicant to submit a transcript of his previous college work.

3. An applicant for admission as a transient student must present a statement from the dean or registrar of the institution that he last attended recommending his admission as a transient student. A transcript is not normally required.

4. Since the college's primary obligation is to its regularly enrolled students, Savannah State College will consider the acceptance of transient students only when their acceptance will cause no hardship or inconvenience to the institution or its regularly enrolled students.

AUDITORS

Regularly enrolled students at Savannah State College may be permitted to audit courses, provided permission is obtained from the in-

structor in charge of the course and the Dean of the College. A student auditing a course will not be placed on the rolls and no report will be made to the registrar.

Members of the faculty or staff of Savannah State College may audit courses, provided permission is obtained from the departments concerned and the Registrar.

SEMINARS, SHORT COURSES AND INSTITUTES

Applicants seeking admission to seminars, short courses, and institutes with programs of work that carry academic credit shall be required to meet all requirements prescribed for admission of students to regular academic programs.

Applicants who wish to enroll in non-credit seminars, short courses, and institutes shall produce evidence to prove:

1. That the applicant has the educational background and the ability to pursue successfully the program of work he wishes to take.

2. That the applicant is of good moral character; that he possesses a sense of social responsibility, and that he has a capacity for growth and development in the program for which he seeks admission.

In the case of an applicant seeking admission to a seminar, short course, or institute, Savannah State College shall have the right to prescribe the types of evidence that an applicant must submit in order to establish qualifications for admission.

IRREGULAR OR SPECIAL STUDENTS

Persons who desire to enroll in a course or courses but who do not intend to complete a specific degree or other program may register as special students. Any special student who decides subsequently to enroll in a regular college program must then satisfy all of the requirements for regular admission.

OTHER POLICIES REGARDING ADMISSION

When the application, necessary transcripts, College Board scores, and any other required information on an applicant are found to be complete and in order, the applicant will be evaluated in terms of his test scores and grades, scholastic aptitude, social and psychological

adjustment, and the probability of his completing the requirements for the desired degree. Savannah State College reserves the right, in every case, to reject any applicant whose general records and attitude do not indicate a probability of success in the Savannah State College environment, notwithstanding the satisfaction of other requirements. Applicants must comply with such other procedures, including personal interviews and psychological or other tests as may be necessary to determine the applicant's sense of social responsibility, adjustment of personality, sturdiness of character, and general fitness for admission to Savannah State College.

In order that the appraisal of a student's ability and fitness for college work may be as nearly accurate as possible, officials of Savannah State College will study carefully all the information, including biographical data that is submitted by the applicant. Officials of Savannah State College shall have the right to require each applicant for admission to appear for an interview before his application is finally accepted or rejected. If an interview is required, the Director of Admissions will notify the applicant of the time and place in which the interview will be conducted.

The ultimate decision as to whether an applicant shall be accepted or rejected will be made by the Director of Admissions, subject to the applicant's right of appeal as provided by the bylaws of Savannah State College and of the Board of Regents of the University System.

POLICY REGARDING NON-RESIDENTS

Applicants who are non-residents of Georgia will be admitted subject to all regulations governing resident students except that an additional fee will be assessed because of non-residence. Determination of non-resident status will be made in accordance with the revised rules on classification of non-residents issued by the Board of Regents of the University System of Georgia on December 12, 1963. A statement of these rules follows:

1. A student who is under 21 years of age at the time he seeks to register or re-register at the beginning of any quarter will be accepted as a resident student only upon a showing by him that his supporting parent or guardian has been legally domiciled in Georgia for a period of at least twelve months immediately preceding the date of registration or re-registration.

2. In the event that a legal resident of Georgia is appointed as guardian of a non-resident minor, such minor will not be permitted to register as a resident student until the expiration of one year from

the date of appointment, and then only upon proper showing that such appointment was not made to avoid payment of the non-resident fee.

3. If a student is over 21 years of age, he may register as a resident student only upon a showing that he has been domiciled in Georgia for at least twelve months prior to the registration date.

Any period of time during which a person is enrolled as a student in any educational institution in Georgia may not be counted as a part of the twelve months' domicile and residence herein required when it appears that the student came into the State and remained in the State for the primary purpose of attending a school or college.

4. A full-time faculty member in an institution of the University System, his wife, and minor children may register for courses on the payment of resident fees, even though the faculty member has not been in residence in Georgia for a period of twelve months.

5. If the parents or legal guardian of a minor changes residence to another state following a period of residence in Georgia, the minor may continue to take courses for a period of twelve consecutive months on the payment of resident fees. After the expiration of the twelve months' period the student may continue his registration only upon the payment of fees at the non-resident rate.

6. Military personnel stationed in Georgia, and their dependents, may become eligible to enroll in institutions of the University System as resident students provided they file with the institution in which they wish to enroll the following materials:

(a) A statement from the appropriate military officials as to the applicant's "home of record";

(b) Evidence that applicant, if over 21 years of age, is eligible to vote in Georgia;

(c) Evidence that applicant, if under 21 years of age, is the child of parents who are eligible to vote in Georgia;

(d) Evidence that applicant, or his parents filed an income tax return in Georgia during the preceding year;

(e) Other evidence showing that a legal domicile has been established in Georgia.

7. Foreign students who attend institutions of the University System under the sponsorship of recognized civic or religious groups may be enrolled upon the payment of resident fees, provided the number of such foreign students in any one institution does not exceed the quota approved by the Board of Regents for that institution.

8. All aliens shall be classified as non-resident students; provided, however, that an alien who is living in this country under a visa permitting permanent residence or who has filed with the proper federal immigration authorities a Declaration of Intention to become a citizen of the United States shall have the same privilege of qualifying for resident status for fee purposes as has a citizen of the United States.

9. Teachers in the public schools of Georgia and their dependents may enroll as students in University System institutions on payment of resident fees, when it appears that such teachers have resided in Georgia for nine months, that they were engaged in teaching during this nine months' period, and that they have been employed to teach in Georgia during the ensuing school year.

10. In the event that a woman who is a resident of Georgia and who is a student in an institution of the University System marries a non-resident of the State, the woman will continue to be eligible to attend the institution on payment of resident fees, provided that her enrollment is continuous.

11. If a woman who is not a resident of Georgia marries a man who is a resident of Georgia, the woman will not be eligible to register as a resident student in a University System institution until she has been domiciled in the State of Georgia for a period of twelve months immediately preceding the date of registration.

REGISTRATION

All students of Savannah State College are required, at the beginning of each quarter of residence:

1. To obtain registration forms.

2. To list on these forms all courses to be pursued during the quarter, and to fill out completely all remaining details, the whole with assistance of departmental advisers.

3. To obtain course cards for each course in which they enroll.

4. To have their study programs approved by the departmental chairman.

5. To pay their fees to the cashier of the college.*

6. To file the Registrar's card and course cards, complete in all details, in the Office of the Registrar.

Completion of the six steps listed above comprises registration in this college. A person may not receive resident credit here unless these steps are completed in due order and on schedule.

Continuing students at Savannah State College will be granted the privilege of completing registration by mail. Information on the procedure should be requested from the Office of the Registrar. A nonrefundable $5.00 deposit is required for this service.

No student will be permitted to register after the last day scheduled for late registration.

SPECIAL REGULATIONS GOVERNING REGISTRATION:

1. Each student is required to complete all details of registration in person except as provided under registration by mail.

2. Each entering or readmitted student is required to present the *Notice of Admission* when he begins registration.

3. The Registrar provides detailed instructions for registration. Each student, assisted by his adviser, is responsible for completing all forms properly and filing the official registration materials in the Office of the Registrar. *Failure to comply with this regulation will result in forfeiture of credit.*

4. Completion of preliminary registration does not exempt a person from official registration.

5. Each student is personally responsible for keeping accurate record of courses completed and for informing himself as to remaining requirements. Additional credit is not allowed for repeated courses.

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*All veterans are required to have their registration approved by the Veterans' Secretary.

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6. Psychological and placement examinations are required of all entering freshmen during Freshman Week. Entering freshmen may not be enrolled before they complete these examinations.

7. Health and physical education courses are required of all freshmen and sophomores except veterans and students who participate in varsity sports. Such students must therefore list these courses on their study programs and pursue the courses throughout the two years.

ESTIMATED GENERAL EXPENSES

(For One Academic Year of Three Quarters)

NOTE: Fees may be remitted by mail to expedite registration procedures but should be sent by money order, cashier's check or certified check payable to Savannah State College. Fees for any quarter may be paid prior to designated registration dates if desired, in order to avoid the congestion of registration. Fees paid in person will be accepted in the same form as those remitted by mail. No personal checks are accepted.

	Per Quarter	Per Year (3 Qtrs.)
Matriculation Fee	$115.00	$345.00
Health Fee	10.00	30.00
Student Activity	20.00	60.00
Total Charges—Day Student	$145.00	$435.00
Room, Board, & Laundry	266.00	798.00
Total Charges—Boarding Students	$411.00	$1233.00*

QTR. HOURS	TOTAL COST
5	$ 48.75
6	88.50
7	98.25
8	108.00
9	117.75
10	127.50
11	137.25
12	145.00

Normal cost of books and supplies approximates $35.00 per quarter.

*Does not include non-resident tuition.

All fees are due and payable at the time of registration. Persons granted scholarships or work-aid assistance will be notified in writing.

EXPLANATION OF FEES

APPLICATION FEE. A student applying for admission is required to pay a NON-REFUNDABLE application fee of $10.00. This fee will not be credited toward other expenses. An applicant who fails to enroll for the quarter for which he is accepted must re-apply (including application fee) if he wishes to enter the institution at a later time.

ROOM DEPOSIT. Entering students and continuing students who live in the college dormitories are required to submit a room deposit of $25.00 with their requests for room assignment. Upon registration this amount will be applied toward room charges for the quarter. If the student is not accepted by the college, this deposit will be returned in full. An applicant, who, after acceptance for admission, decides not to enroll at Savannah State College may secure a refund of his application deposit by requesting a refund in writing at least twenty days prior to the registration date for the quarter in which accepted.

GRADUATION FEE. A charge of $20.00 is made to all undergraduates to cover the cost of diploma and rental of cap and gown which is payable upon filing for graduation. All graduate students must pay $20.00 to cover cost of diploma, hood and rental of cap and gown. These fees are not refundable.

HEALTH FEE. A charge of $10.00 per quarter is required of each student to finance limited clinical services, bed care in the infirmary for minor illness, and general dispensary care.

LATE REGISTRATION FEE. Students who fail to register on the regular registration day will be charged a late registration fee of $3.00 for the first day and $1.00 each for the second and third days, the total not to exceed $6.00.

MATRICULATION FEE. The charge for matriculation is $115.00 per quarter for students registering for twelve (12) or more quarter hours. Students registering for less than twelve (12) quarter hours will be charged a matriculation fee at the rate of $9.75 per quarter hours.

NON-RESIDENT TUITION. Students with residence outside of Georgia, registering for twelve (12) or more quarter hours will be charged non-resident tuition of $180.00 per quarter.

Students with residence outside of Georgia, registering for less than twelve (12) quarter hours, will be charged non-resident tuition at the rate of $15.00 per quarter hour.

ROOM, BOARD AND LAUNDRY. All students living in the dormitories are required to purchase two meals per day per quarter in the college dining hall. Students will be permitted to live in off-campus housing only after all available spaces on the campus have been assigned.

SPECIAL EXAMINATION FEE. A fee of $1.00 is required for each special, delinquent or validation examination. Arrangements for such examination must be made with the Dean of Faculty.

STUDENT ACTIVITIES FEE. A student activities fee of $20.00 per quarter is required of each student carrying six (6) or more quarter hours.

TRANSCRIPT FEE. No charge is made for the first transcript issued at the request of a student. A fee of $1.00 will be charged for each additional transcript.

REFUND OF FEES

Students ill at home or otherwise unable to follow the official procedure for withdrawing, should write or have someone write to the Dean of Students, requesting permission to withdraw.

No refund of fees for any term will be authorized unless the foregoing procedure is completed before the end of such term. The matriculation fee and non-resident fee are subject to the following refund policy which was adopted by the Board of Regents on January 20, 1947:

> For students who withdraw during the first week after registration for the quarter, 80% of the fees may be refunded; for students who withdraw during the second week a refund of 60% will be made; for students who withdraw no later than the end of the third week following registration, a refund of 40% may be granted; for students who withdraw during the fourth week following the scheduled registration

date, a refund of 20% will be granted. No refund will be made to students who withdraw after the end of the fourth week following registration.

Room, board and laundry charges will be made through the end of the week during which the student withdraws. A student who wishes to withdraw from the dining hall and dormitories must secure a permit from the personnel dean. This permit when submitted with the dining hall meal book will entitle the student to a refund.

Refunds for reduced loads (students initially matriculating for less than twelve credit hours) will be forwarded to the student's address of record on or about four weeks from the beginning of each quarter.

No refunds will be made on schedules adjusted after the last day of eligibility for refunds as published in calendar of the college bulletin.

ACADEMIC REGULATIONS

ATTENDANCE

In classroom exercises, laboratory, and class-related activities, Savannah State College provides the necessary facilities, materials, and conditions for the effective training of its students. It is essential that each student share fully in the educational experiences which are provided. There is no compulsory class attendance at the College for students above the freshman level who are in good standing. However, each student is responsible for all class work undertaken in a particular class during the quarter. It is, therefore, strongly urged that every student make every effort to be present at each class session. Students who are required to attend classes may have two unexcused absences for each credit hour that a course carries.

THE GRADING SYSTEM

The college uses letters to indicate quality of academic work. A is the highest grade; D the lowest passing grade. Grade distinctions and quality point values are:

Grade	*Meaning*	*Quality Point Value*
A	Excellent	4 per credit hour
B	Good	3 per credit hour
C	Average	2 per credit hour
D	Poor	1 per credit hour
F	Failure	0 per credit hour

All courses in the major or minor in which the grade of D is earned must be repeated. The grade of D, like higher grades, is final and can not be raised by make-up work or examination. When a course is repeated, credit may be received only once, with the highest grade only being used to compute the cumulative average.

The grade "F" indicates that the student has failed to meet the minimum requirements of the course.

Credit toward graduation may not be earned more than once in the same course. To be granted a degree from Savannah State College every student shall have a minimum cumulative average of "C" (2.00).

GRADES FOR INCOMPLETE COURSES AND WITHDRAWAL FROM CLASSES

The College uses letters to denote incomplete courses and withdrawal from classes. These grades have no quality point value.

The grade I indicates that the student has not completed a small portion of the requirements of the course. It denotes further:

a. That the student remained in the class until at least ten days prior to the conclusion of the quarter;

b. That, though incomplete, the student's work while he remained in the class was of D grade or better; and

c. That either by examination or additional work the student may complete the course on or before the days scheduled for removal of incomplete grades, during the next quarter of residence.

If the next quarter of residence is a summer quarter, the student must remove the I grade during this quarter.

The grade W is given by the instructor when a student withdraws officially from a course on or before the last day for dropping courses. The grade WP (withdrew while passing) is given by the instructor when a student withdraws officially from school and is doing satisfactory work in a course at the time of his withdrawal. The grade WF (withdrew while failing) is given by the instructor when a student withdraws officially from school and is doing unsatisfactory work in a course at the time of his withdrawal.

A student may withdraw from a course at anytime during the quarter up to two weeks prior to the first day of final examinations. Withdrawal must be done formally and all necessary forms must be filled out and turned in to the proper officers. The grade F is given by the instructor when a student withdraws from a course or from school without giving formal notice. This is not the only meaning of the grade F, because it may also mean that the student failed to meet the minimum requirements of the course.

A student who fails to take the final examination in a course and who is failing in this course at the time of the final examination shall be given the grade of F by the instructor.

PROCEDURE FOR WITHDRAWAL FROM COLLEGE

Students at Savannah State College are regarded as young adults who are capable of making mature decisions, with minimum counseling, about their educational plans. Accordingly, any student who feels that circumstances require his withdrawal from the College may do so by filing the appropriate forms in the Office of the Dean of Students. The Dean of Students will counsel with the student in an effort to determine whether the circumstances are such that the College can provide a remedy which will make it possible for the student to remain in school. If such remedy cannot be afforded, the Dean of Students, or his designated representative, will formally approve the request for withdrawal and forward the appropriate forms to the offices of the Dean of Faculty, the Registrar, and the Comptroller.

Students not able to follow this procedure should write or have someone write to the Dean of Students, requesting permission to withdraw. Students who withdraw without giving formal notice will forfeit claims for any refunds.

CHANGES IN GRADES

Once an instructor has reported a grade to the Registrar, the instructor may change the grade only under the following conditions:

1. An instructor may change an I (Incomplete) to any grade on designated dates within the quarter when the student is next enrolled in residence. An I automatically becomes F if it is not removed on these designated dates within the quarter when the student is next enrolled in residence.

2. An instructor may change any grade to another grade upon presenting to the Dean of the College conclusive documentary proof that the previous grade was reported through error.

MID-QUARTER GRADES

Each faculty member submits to the Office of the Registrar a report of all deficient grades (D's and F's). The Office of the Registrar in turn sends copies of such reports to the students, their parents or guardian(s), and to departmental heads.

CALCULATING THE SCHOLASTIC AVERAGE

A student's cumulative grade-point average is determined by dividing the number of quality points by the number of quarter hours of courses taken. In calculating the cumulative averages, only the highest grade made in a repeated course may be used.

CLASSIFICATION OF STUDENTS

A student will be classified as a freshman, sophomore, junior, or senior according to the number of quarter hours of work that he has attempted for which final grades are recorded. The following system of classification is observed:

Freshman	(0-45 hours)	Junior	(90-134 hours)
Sophomore	(46-89 hours)	Senior	(135 hours and above)

STUDENT LOAD

Under ordinary circumstances, a student may not register in any quarter for an academic credit load exceeding the normal requirement of his classification and major. As indicated under *Recognition for Excellence in Scholarship* exceptions are permissible, however, to superior students. In addition, a candidate for graduation who has no scholastic deficiency may enroll for credit in one additional course, if the total load does not exceed twenty quarter hours and failure to take such course would hinder the student from graduating on schedule. In any event, a student will be allowed no credit for an overload unless such overload has the formal approval of both the student's adviser and the Dean of Faculty.

All regular and terminal students are required to pursue courses in the prescribed order. Special students will pursue the courses agreed upon in conference with their advisers.

Deficiencies in required courses take precedence over other courses. Any student who earns a D or an F in a major, minor, professional education, or special subject requirement must forthwith repeat the course.

SCHOLARSHIP STANDARDS

Savannah State College is operated for students who demonstrate seriousness of purpose and the ability and disposition to profit by

college work. Students who fail to fulfill the scholarship requirements of the institution are subject to scholastic discipline. At the end of each quarter the Office of the Registrar computes cumulative grade-point averages in order to determine the academic standing of all students in residence. At that time the Registrar shall notify the Dean of Faculty prior to notification of students and their parents or guardians of the academic probation, suspension, or dismissal of students. In addition, he shall notify other appropriate personnel of this action.

The following regulations govern scholarship standards at Savannah State College:

1. Freshmen (0-45 hours) or transfer students who fail to achieve a cumulative average of at least 1.00 after one quarter of residence will not be permitted to enroll during the succeeding quarter. (Grades received in Basic English and mathematics courses will not be considered in computing grade point average).

2. Freshmen who achieve a minimum cumulative grade-point average of 1.00 but not more than 1.50 will be placed on academic probation.

3. Upperclassmen (46 hours and above) who fail to achieve or maintain a cumulative average of at least 2.00 will be placed on academic probation.

4. A student on probation (1) may not register for less than ten hours if resident student (five hours if commuting student) nor more than thirteen hours; (2) must repeat all courses in which he earned the grade of F that are prescribed in his curriculum and all courses in his major and minor concentration and Freshman English in which he earned the grade of D; (3) must report to his academic adviser for counseling service immediately after being notified of his probationary status, and (4) will not be permitted to represent the College or hold office in any college organization.

5. A student on probation whose cumulative average decreases will not be permitted to register for the succeeding quarter.

6. If the student on probation does not remove his probationary status in two succeeding quarters in residence, or maintain a minimum grade point average of 2.50 for each of the two succeeding quarters, he shall be suspended for one quarter. If a student maintains a minimum grade point average of 2.50 while on probation for two succeeding quarters, his probationary period will be extended as long as he maintains this grade point average each successive quarter enrolled.

READMISSION

The following standards govern the readmission of students who have been suspended for academic reasons:

1. Readmission applications are processed by the Committee on Admissions in consultation with the chairman of the applicant's major field, and its decision shall be final. Requests for readmission should be addressed to the Registrar of the College.

2. The College reserves the right to deny readmission to any student who has been suspended for academic reasons. A student may apply for readmission in any quarter after he has been out for one quarter. Conditions for readmission are: (1) the filing of an application at least thirty days prior to the beginning of the quarter in which the student expects to resume enrollment; (2) passing of a readmission test by the student which is administered by the College; and (3) submission by the student of evidence of increased motivation and maturity.

3. Applications for readmission are considered by the Committee on Admission on the basis of detailed information concerning the cause of failure, academic goals, entrance tests, college grades previously earned, length of absence, motivation, outside commitments, and recommendations from appropriate personnel.

4. A student readmitted must achieve and maintain a scholastic average appropriate to his class level in all courses that he must repeat and in all new courses that he pursues. He will be allowed three quarters to remove his probationary status, however, if he maintains a minimum grade point average of 2.50 each quarter of his probationary period, his probation may be extended. Failure to fulfill these conditions will result in dismissal. One calendar year after dismissal, a student may petition the Academic Council of the College for readmission if he can convincingly demonstrate that he has had a change of attitude toward his academic responsibilities. However, the student should understand that such permission is rarely granted.

RECOGNITION OF EXCELLENCE IN SCHOLARSHIP

Persons who have not been subject to disciplinary action while earning superior grades, and who, likewise, have not incurred any academic deficiency, are eligible for honors status as here indicated:

1. Students who maintain an average of B in not less than a normal load during a given quarter are eligible for listing on the Honor Roll.

2. Students who maintain an average of 3.50 or higher, in a full program in a quarter will have their names placed on the Dean's List for the following quarter.

3. Students who maintain an average of 3.00 during any quarter may secure permission to take additional hours during the following quarter, the total not to exceed twenty hours. Additionally, students whose general average is 3.00 or better may be permitted to take quarter hours in excess of a normal load up to a limit of 20 quarter hours.

GRADUATION HONORS

Graduation with honors is based upon completion of a minimum attendance period of six quarters and completion of at least ninety quarter hours at Savannah State College. In addition, students who graduate with honors must attain the following grade-point averages for the entire period of college attendance:

Cum Laude	3.00
Magna Cum Laude	3.40
Summa Cum Laude	3.75

ACADEMIC SERVICES

DEVELOPMENTAL EDUCATION PROGRAM

The college maintains a Developmental Education Center which provides educational experiences designed primarily for entering freshmen whose reading, language, and computational skills are not adequate enough to enable them to engage in a college program with a reasonable chance of success. Upon entry, freshmen are tested to determine their competence in these areas. The results are used as the basis for assigning students to basic courses in English, mathematics and reading.

If the score of a student is sufficiently high in the Mathematics and/or Humanities area (s), he will be placed in regular Mathematics and English courses and will not be required to take Math or Hum. 106, the basic courses. If his score is high enough, he may be exempted from Math/Hum. 107 and go directly to Math/Hum. 108. In this case, the student will be awarded 5 quarter hours of credit for each course from which he is exempt.

For the student who requires no basic courses, the total number of quarter hours for graduation will be the total number of hours as listed in the institutional catalog for his program for the year of his entry. For the student who must take basic courses, the total hourly requirement will be increased by five hours for each basic course undertaken.

Basic courses for freshmen are labeled Humanities 105, Basic Reading; Humanities 106, Basic English; and Math 106, Basic Mathematics. Each basic course carries five quarter hours of credit.

CORRESPONDENCE AND OFF-CAMPUS CLASSES

In addition to instruction on the campus, Savannah State College is authorized to offer college correspondence courses and off-campus evening classes. Such programs have become recognized services of public education, reflecting a sense of obligation to those who cannot undertake resident instruction and to those who do not require resident instruction for personal growth and enrichment.

Correspondence Study

Students registering in correspondence study should meet the minimal requirements of graduation from an accredited high school.

College correspondence study is designed as an auxiliary to regular campus classroom study. The courses follow the same general outline used in the classroom. Study materials and instructors are often the same as those in residence.

Courses completed in this program and courses completed in a similar program at recognized institutions will be accepted for credit toward graduation at Savannah State College under the following conditions:

1. Not more than 45 quarter hours may be earned in correspondence.

2. Not more than 50% of the required courses in the major or minor may be completed in correspondence.

3. Courses in the professional education sequence may not be taken in correspondence study.

4. Courses may not be taken in correspondence study to remove deficiencies earned in residence.

5. Correspondence courses may not be taken by students who have completed 135 or more quarter hours.

Students desiring to have correspondence credit counted toward graduation should obtain written permission therefor from the Dean of the College and present this statement to the Correspondence Study Office.

Off-campus Evening Classes

Upon sufficient demand, regular college courses are offered away from the campus. Course content, hours required, and credit are the same as in courses taken on the campus.

Information

Information concerning courses, credit, fees, examinations, textbooks, etc. may be obtained from

Correspondence Study Office
Savannah State College
Savannah, Georgia

EXTENDED SERVICES

Extended Services at Savannah State College consist of a variety of programs designed to supplement the regular educational program's efforts to meet the growing needs of the College's constituency.

Classes in COMMUNITY DEVELOPMENT AND COMMUNICATIONS are designed as a part of the College's effort to become more intimately involved in community affairs. The program is focused on strengthening the abilities of community leaders to render more effective service.

The INNER CITY PROGRAM is a cooperative program involving Savannah State College and a number of local community organizations and governmental agencies at both local and state levels. The program which is currently in operation consists of classes for handicapped adults and for other adults who are interested in remedial work. In addition to providing facilities for the classes, financial support is also given.

The purposes of PROJECT SEEK are: (1) to encourage and assist Savannah residents to achieve a higher quality and greater quantity

of education; (2) to provide educational and vocational counseling services to adult women needing assistance in developing and implementing personal plans of action related to their continuing education, employment or community service activities; and (3) to increase community and agency awareness of the seriousness of the problem of disadvantaged women and to act as a catalyst in community action.

One of the main objectives of Project Seek is to provide new training programs through the College or other appropriate community agencies to meet community manpower gaps.

The CAREER OPPORTUNITY PROGRAM (COP) is envisioned as an innovative approach toward employment and uplifting of talented but financially deprived persons of the Model Cities Neighborhood. Individuals accepted into the local COP as prospective paraprofessionals are accepted at Savannah State College for academic work.

The UPWARD BOUND PROJECT seeks to help raise the academic and cultural levels of eleventh and twelfth grade pupils who evidence potential for post secondary work but lack the motivation to prepare themselves to pursue such work successfully. The Upward Bound Project apprises them of educational opportunities in the form of scholarships and other aids which are open to them.

The SEMINAR in AFRICAN STUDIES is a program that includes students and faculty. The seminar sponsors lectures on Black culture and culminates its year with a trip overseas with funds raised by the members of the Seminar. The main purpose of these trips is to provide an opportunity for participants to learn more about Black culture.

The EMERGENCY SCHOOL ASSISTANCE PROGRAM (ESAP) is designed to meet special needs incident to the elimination of racial segregation and discrimination among students and faculty in elementary and secondary schools by contributing to the costs of new or expanded activities to be carried out by local educational agencies, organizations, or institutions and designed to achieve successful desegregation and the elimination of all forms of discrimination in the schools on the basis of students or faculty being members of a minority group.

The specific objectives of the SPECIAL SERVICES FOR THE DISADVANTAGED PROGRAM are (1) to improve the self-image of the students served; (2) to stimulate his interest in the general

education program in the college related activities; (3) to assist in developing in the student basic skills in reading, communication skills and mathematics; (4) to provide assistance in adjusting to the academic atmosphere in an institution of higher learning; (5) to help him develop adequate study habits; (6) to help him to develop self-confidence in his peer/peer, faculty/student relations; (7) to assist him in engaging in larger dimensions of learning; and (8) to assist in the realizing of personal fulfillment and enrichment through involvement and successful performances.

The HYGIENE AGAINST NARCOTICS DEPENDENCY PROGRAM (HAND) is designed for close cooperation between high school and college by its focus on seminars, demonstrations, and instruction in narcotics prevention.

The specific objectives of the DRUG ABUSE EDUCATION PROGRAM are (1) to provide immediate and comprehensive service for the most disruptive student and/or disturbed person in the community who desire the service; (2) to provide for the young adults in South Georgia additional assistance in alleviating severe problems of maladjustment within the classroom; and (3) to provide intensive assistance for students in this program and for their families.

The intent of the VETERANS EDUCATION AND TRAINING ACTION PROGRAM is to establish an outreach program that serves 350 veterans by providing educational and employment opportunities with the assistance of the G.I. Bill and other related benefits.

The purpose of the SOUTH GEORGIA CONSORTIUM is to develop communication and cooperation among South Georgia's state and local public service agencies in the application of agency resources for identifying and solving community problems.

The objectives of the PUBLIC SERVICE PROGRAM FOR THE HUMANITIES are to provide opportunities for representatives of the urban, low socio-economic class, culturally deprived to gain advanced knowledge and skill in the humanities and allied areas.

The following elements are essential in the HUMAN DEVELOPMENT INSTITUTE and LEADERSHIP TRAINING LABORATORIES: (1) clarifying, understanding and further amplifying the goals and objectives of the project; (2) understanding each others role and how it relates to the total program; and (3) identifying strengths and weakness which each member (student and parent, teacher and student, school and community) brings to the team.

DEGREES AND ACADEMIC PROGRAMS

The degrees and academic programs of the institution are offered through six Divisions: Business Administration, Education, Humanities, Natural Sciences, Social Sciences, and Technical Sciences.

The following degrees are awarded:

MASTER OF BUSINESS ADMINISTRATION

MASTER OF EDUCATION, in the fields of biology, chemistry, English, history and political science, and mathematics

MASTER OF SCIENCE IN ELEMENTARY EDUCATION

BACHELOR OF ARTS, with a major in social work

BACHELOR OF BUSINESS ADMINISTRATION, with majors in finance and in management and marketing

BACHELOR OF MUSIC EDUCATION

BACHELOR OF SCIENCE, with majors in accounting, biology, chemistry, civil technology, criminal justice, dietetics and institutional management, economics, electronics technology, general business administration, mathematics, mechanical technology, medical technology, office management, social sciences, and textiles and clothing

BACHELOR OF SCIENCE IN EDUCATION, with majors in elementary education; secondary education in the teaching fields of biology, business education, chemistry, English, French, industrial arts education, mathematics, physics, general science, social studies, Spanish, and trades and industrial education; art education; and health, physical education, and recreation

Elementary and Secondary Education programs have been approved by the Georgia Division of Teacher Education and Certification, and by the National Council for Accreditation of Teacher Education (NCATE) in each of the following areas:

Grades 7 - 12
Business Education
English
French
General Science
Industrial Arts Education
Mathematics
Social Studies
Spanish

Grades 7 - 12
Trade and Industrial Education

Grades 1 - 12
Art Education
Health and Physical Education
Music Education
Teacher-librarian

TERMINAL COURSES

To meet the needs of persons who are already gainfully employed, but who desire immediate, specialized training, and for others whose opportunity for formal education is limited, the College offers two-year terminal courses in dressmaking and tailoring and in office administration. Upon satisfactory completion of a terminal course, the student is given a certificate of proficiency.

GENERAL REQUIREMENTS FOR THE BACCALAUREATE DEGREE

1. A minimum of 189 quarter hours, including health, physical education, and orientation.

2. A scholastic average of "C" or higher.

3. Satisfactory completion of the minimum requirements of the Core Curriculum as outlined for Areas I, II, and III, and in the specific degree programs for Area IV.

4. A prescribed divisional major (such as business administration, education, or technical sciences) or a major of at least 45 hours in one department and a minor of 30 hours in another department, with no grade below "C" in major, minor, or special subject requirements. Certain major courses must be taken in residence at this College.

5. Residence of at least one year at Savannah State College. Students who entered the college in September 1955 and thereafter are required to spend the senior year in residence.

No student will be admitted to candidacy for the degree before all deficiencies in required major and minor courses have been cleared and the English proficiency and major comprehensive requirements are met.

Each prospective candidate for graduation is required to submit a formal application for the degree. The date for filing the application in the Office of the Registrar is listed in the College Calendar.

All requirements for graduation must be completed within eight calendar years. The College reserves the right to disallow credit earned more than eight years prior to the quarter in which application for a degree is made.

A student registered at Savannah State College may elect to take courses at Armstrong State College in a manner which is convenient to his schedule and will receive full credit at Savannah State College without additional fees.

A student electing to take courses at Armstrong State College should initiate such procedure upon advice of his major advisor. Formal arrangement for such a course is made through the Office of the Registrar.

COMPREHENSIVE EXAMINATIONS

Each prospective candidate for the baccalaureate degree must pass a comprehensive examination as prescribed by the specific department in which the student is majoring. These examinations are offered at stated times and it is the student's responsibility to consult the College Calendar relative to dates, and to apply for the examination pertinent to his major through the Office of Student Personnel. Questions regarding the student's comprehensive should be referred to his departmental advisor.

THE CORE CURRICULUM

The Core Curriculum at Savannah State College consists of the general requirements in the ninety-hour core adopted in 1967 for all units comprising the University System of Georgia. In addition, Savannah State College requires a nine-hour sequence in literature in order to assure that its students have greater depth in this area.

Areas of Study	Minimum Quarter Hours Required
I. Humanities, including, but not limited to grammar and composition and literature HMN 107-108-109 **HMN 131 or ART 130 and HMN 207-208-209 or HMN 132-133-134	29*
II. Mathematics and the Natural Sciences, including, but not limited to, Mathematics and a 10-hour sequence of laboratory courses in the Biological or Physical Sciences MAT 107, 108; PHS 203 BIO 123-124, or 126-127; or CHE 101-102; or PHY 201-202	20
III. Social Sciences, including, but not limited to, History and American Government SOS 101, 102, 111, 201 PSC 200; ECO 201; ***HIS 300	20 5
IV. Courses appropriate to the major field of the individual student, but more general in nature than specific courses required for the major. Courses in this area are incorporated into the course listings for the respective divisions and departments. *Physical Education*, required of all students except veterans and varsity athletes, is not included in the above core.	30

*Since this exceeds the University System requirement, students who transfer from other units in the System will be held to the requirements of the school from which they transfer.

**The literature sequence, HMN 207-208-209 is not required for Technical Science majors.

***This course may also be used to satisfy the legislative requirement of U.S. and Georgia History. The requirement may be satisfied by passing an exemption examination, or by substituting any five hour course in American History.

DIVISION OF BUSINESS ADMINISTRATION

MARY CLAY TORIAN, *Chairman*

Olest Carver Byrd
Albertha E. Boston
Johnny Campbell
Alexander Horsfall
*Harvey Jones
Arthur T. Kolgaklis
Arthur Levy
Herbert A. O'Keefe
Charlease Stevenson
Willie T. Waddell
R. B. Singh

The main purpose of the Division of Business Administration is to provide for students a sound educational foundation for socially effective and gainful employment in the business world. Specifically, through curricular offerings, supervised work experience, co-curricular activities, and individual counseling for careful selection of courses in accordance with student aptitudes and interests, the Division prepares students for:

1. Employment as accountants, administrative level secretaries, salesmen, and for mid-management positions in business;
2. Operation, management, and ownership of business enterprises;
3. Teaching business subjects in the secondary school;
4. Further study in accounting, business economics, general business, business education, and other specialized areas in business.

To realize these aims, the Division offers courses leading to the Bachelor of Science in Business Administration, Bachelor of Business Administration, and a terminal program leading to a certificate of proficiency in various phases of office administration.

DEGREE PROGRAMS

UNDERGRADUATE

A student in business administration may pursue a major in one of seven general areas: (1) Accounting, (2) general business administration, (3) business education, (4) economics, (5) office administration, and in cooperation with Armstrong State College: (6) finance or (7) management-marketing. In addition, persons desiring to become certified as teachers of business subjects on the secondary level will complete all requirements for the major in the Division of Business Administration; but will be awarded the degree in con-

*On leave beginning October 10, 1971.

junction with the Division of Education, inasmuch as he must also meet requirements set by the Division or State Department of Teacher Education and Certification.

The total quantitative requirements for the degree is 195 quarter hours, including required physical education. The total includes a common liberal arts (general education) sequence, a broad core in business administration, and a major-minor concentration. The student may elect a major-minor concentration within the Division, or a major in the Division, and with express approval of the Chairman, a related minor in another Division. A minor, however, is not an ultimate requirement; a student may wish to pursue free electives instead.

CORE REQUIREMENTS

In keeping with criteria of the American Association of Collegiate Schools of Business, all students in the Division of Business Administration are expected to complete the following core requirements:

Liberal Arts Core: (Including electives)	94
Basic Business Core:	33
Major Specialization Area:	40-41
Electives: (Restricted and non-restricted)*	28-27
Total	195

Liberal Arts Core: (94 hours). The recommended options for business majors in the liberal arts core include the following (or equivalent):

FRESHMAN YEAR

	Quarter Hours
HUM 107-108-109—English Communicative Skills	15
HUM 131—Introduction to Music and Art	5
Laboratory Science Sequence: Chemistry or Physics or Biology two quarter sequence.	10
SOC SCI 101 or 102—History of Western Culture	5
MATH 107—College Algebra and Trigonometry and MATH 110 or BAD 103	10
PED 111-113—Seasonal Activities / or Swimming	2
Electives from the Division of Business Administration:	
BAD 105—Introduction to Business Organization	3
OAD 201—Elementary Typewriting	2
	47

SOPHOMORE YEAR

HUM 207-208-209—World Literature	9
ECO 201-202—Principles of Economics I & II	10
SOC SCI 201—Psychological Basis for Human Behav.	5
POL SCI 200—Government	5
PED 211-212-213—Seasonal Activities / or Swimming	3
	32

SENIOR OR JUNIOR YEAR

HIS 300—History of U.S. & Georgia	5
PHIL 301—Logic/or	5
MATH 306—Computer Programming	
	10

BASIC BUSINESS CORE. (33 hours). All students in the Division, without regard to major areas of specialization, are required to take the following basic business core, which together with 10 hours of Principles of Economics constitutes a minor in general business administration:

	Quarter Hours
BAD 225—Business Communications	3
ACC 201-202—Principles of Accounting	10
BAD 317—Business Law	5
BAD 325—Principles of Marketing	5
BAD 415—Business Organization and Management	5
ECO 332—Business and Economic Statistics I	5
Total	33

In addition, all majors, other than business education, will take the following core subjects as restricted electives:

ACC 203—Principles of Accounting	5
ECO 333—Business and Economic Statistics II or Math 306	5
BAD 407—Business Finance	5
	15

COOPERATIVE PROGRAMS. Through cooperative interchange with Armstrong State College, it is possible for a business major to complete requirements for specializations in marketing and finance, and a wider variety of restricted electives in accounting, general business administration, finance, and economics are available. A student is permitted to take courses at Armstrong on a fee-free basis as long as the total number of hours does not exceed the maximum load per quarter.

In the cooperative major areas, required courses offered only at Armstrong State College are indicated with an asterisk in the curriculum sequence listing.

BUSINESS EDUCATION. In cooperation with the Division of Education, three teacher certification areas are available for business education majors, with minimum requirements listed below.

Liberal Arts Core:	94
Basic Business Core:	33
Professional Education Core:	41
Restricted Electives: (Teaching Option)	27
	195

Teacher Certification areas are indicated as Options, and are prescribed in accordance with the State Department of Certification as follows:

Option 1. Comprehensive Business Education—qualifying a teacher in all business subjects, except business data processing (minimum hours: 60).

Option 2. Bookkeeping and Business Management—qualifying one to teach all business subjects except shorthand, transcription, and business data processing (minimum hours: 60).

Option 3. Business Data Processing and Accounting—qualifying a teacher in business data processing and related areas, except shorthand and transcription (minimum hours: 60).

TYPEWRITING PROFICIENCY. While proficiency in typewriting is required for all majors, registration in a formal course in typewriting is not required of any major specialization area except business education and office administration. Satisfaction of such proficiency may be ascertained through a typewriting test. To prepare for the proficiency test requirements (a minimum of 30 words per minute), a student may elect to register for one or more courses in typewriting as a part of his free electives. Certification of typewriting proficiency shall be filed with the Registrar. Credit hours, however, shall not be awarded unless the student is officially enrolled in a formal course.

ACADEMIC COUNSELING. Students undertaking work toward a degree in the Division obtain contractual programs of work upon entrance to the Division at the beginning of the Sophomore year. This document lists requirements, optional electives, and blocks of courses in the major area of specialization from which the student may select

to fulfill requirements for graduation. The curriculum contract is used as a guide for counseling and at each registration period until graduation. A copy is maintained in the student's personnel folder in the Division; one copy is filed with the Registrar; and one is retained by the student. Inasmuch as there are broad areas of electives, both restricted, and non-restricted, it is essential that the student seek counseling and observe the sequential arrangement of requirements before selecting courses for periodic registration.

The Division Chairman is general adviser to all students in the Division of Business Administration, and special academic advisers are assigned to each student upon entrance to the Division on the basis of specialization areas and freedom of choice by the student.

At the beginning of the Senior year, the student files an application for the degree with the Registrar, duly approved by the Division Chairman, and includes a listing of courses completed, grades and quality points earned, and a record of all other college requirements.

FRESHMAN AND SOPHOMORE REQUIREMENTS

The major part of the work in the freshman and sophomore years consists of general education. The freshman listings are in keeping with the common freshman year adopted by the College. The purpose of these courses is to lay a broad foundation of cultural work for the student prior to his undertaking any specialized work.

Following are freshman and sophomore courses for students who plan to pursue a major in the Division of Business Administration. Business Education listings appear in the Teacher Education Curriculums under the Department of Secondary Education.

FRESHMAN YEAR

Course & No.	*Descriptive Title*	*Quarter Hours Credit* Fall	Winter	Spring
HUM 107-108-109	English Communicative Skills	5	5	5
SOC SCI 101 or 102	History of Western Culture	5		
MATH 107	College Algebra & Trigonometry		5	
HUM 131	Introduction to Music and Art			5
Laboratory Science	Sequence: (Biology, Physics, Chemistry, or Physical Science)	5	5	
EDN 100	Freshman Lectures	R		
PED 111-113	Seasonal Activities /or Swimming	1	1	
*Electives:	(BAD 105, OAD 201 - 202 MATH 110-MATH for BUS. Majors)	2	2	8
		18	18	18

*Suggested electives may be taken any quarter, in exchange with any one-quarter course, but not with sequence courses.

SOPHOMORE YEAR

Course & No.	*Descriptive Title*	*Quarter Hours Credit* Fall	Winter	Spring
ACC 201-202-203	Principles of Accounting	5	5	5
HUM 207-208-209	World Literature	3	3	3
ECO 201-202	Principles of Economics	5	5	
SOC SC 201	Psych. Basis for Human Behavior			5
BAD 225	Business Communications		3	
PED 211-212-213	Seasonal Activities /or Swimming	1	1	1
*Electives:	(OAD 201-Elementary Typing and/or BAD 301-Data Processing and/or Pol. Sci. 200—Government)	3		2
		17	17	16

JUNIOR AND SENIOR PROGRAMS

By the end of the Sophomore year, the student should elect a major area of concentration in one of the following fields: Accounting, General Business Administration, Economics, Finance, Management-Marketing, or Office Administration and follow the suggested sequences below:

1. Accounting

JUNIOR YEAR

Course & No.	*Descriptive Title*	*Quarter Hours Credit* Fall	Winter	Spring
ACC 301-302	Intermediate Accounting	5	5	
ACC 303	Advanced Accounting			5
BAD 317	Business Law	5		
BAD 325	Principles of Marketing			5
ECO 331	Economic and Business Statistics I	5		
ACC 325	Federal Income Tax Procedure		5	
BAD 407	Business Finance			5
*Electives	(BAD 301 - Intro To D.P.)	3	5	
		18	15	15

SENIOR YEAR

ACC 405	Cost Accounting	5		
ACC 450	Auditing			5
ACC 440	Business Data Processing Systems		5	
BAD 415	Business Organization & Management		5	
PHIL 301	Logic or Math 306-Computer Sci.	5		5
HIS 300/or POL SC 200	History of the U.S. & Georgia Government			
*Electives	(BAD 465-Business Policy)	5	5	5
		15	15	15

*Suggested Electives: ACC 460. CPA Review; ECO 302. Current Economic Problems; BAD 409-410. Administrative Practices and Internship; Math 306-307. Computer Programming, or ECO 323. Money, Credit, & Banking, or BAD 409-410—Adm. Practices and Internship.

2. General Business Administration

JUNIOR YEAR

Course & No.	Descriptive Title	Quarter Hours Credit Fall	Winter	Spring
ECO 331	Business & Economic Statistics I	5		
BAD 407	Business Finance			5
BAD 317	Business Law	5		
BAD 323	Money, Credit & Banking	5		
BAD 325	Principles of Marketing		5	
BAD 300/or Math 306	Business Machines Computer Programming		5	
HIS 300	History of the U.S. & Georgia			5
Electives	(BAD 301 Intro to D.P.)	3	5	5
		18	15	15

SENIOR YEAR

BAD 409-410	Administrative Practice & Internship	5		5
BAD 415	Business Organization and Management		5	
BAD 465	Business Policy			5
ECO 302	Current Economic Problems	5		
PHIL 301	Logic/or Math 306-Programming		5	
*Electives:		5	5	5
		15	15	15

*Suggested Electives: BAD 400. Personal Contemporary Problems; ECO 401. Labor Problems; Math 306-307. Computer Programming; OAD 425. Office Management; BAD 304; 306; 307; 403; and 412.

3. Economics

JUNIOR YEAR

Course & No.	Descriptive Title	Quarter Hours Credit Fall	Winter	Spring
ECO 305	Intermediate Micro-Theory	5		
ECO 306	Intermediate Macro-Theory		5	
ECO 331-332	Business & Economic Statistics	5	5	
BAD 407	Business Finance			5
ECO 323	Money, Credit & Banking	5		
BAD 325	Principles of Marketing			5
ECO 304	Econ Theory & Hist of Econ Thought		5	
ECO 307	Economic History of the U.S.			5
Elective	(BAD 301 - Intro to Data Processing)	3		
		18	15	15

SENIOR YEAR

BAD 450	Business Organization & Mgmt.	5		
ECO 401	Labor Problems			5
PHIL 301	Logic or Math 306-Computer Prog.		5	
ECO 405	International Economics	5		
ECO 406	Comparative Economic Systems		5	
HIS 300 or	History of the U.S. & Georgia			5
Electives	(BAD 465-Business Policy)	5	5	5
		15	15	15

Suggested Electives: ECO 403. Public Finance; ECO 308. Economic History of Europe; BAD 307. Principles of Insurance; other Econ. courses.

4. *Finance

JUNIOR YEAR

		Quarter Hours Credit		
		Fall	Winter	Spring
ECO 331-332	Business & Economic Statistics	5	5	
BAD 407	Business Finance			5
BAD 317	Business Law	5		
BAD 323	Money, Credit & Banking		5	
BAD 325	Principles of Marketing		5	
ACC Elective	Cost/Intermediate/or *BA425, Managerial Accounting	5		
Finance Electives	*BA404, Real Estate/Income Tax /or BAD 307 Principles of Ins.			10
		15	15	15

SENIOR YEAR

BAD 409	Adm. Practice & Internship	5		
BAD 415	Business Organization & Mgmt.		5	
BAD 465	Business Policy /or			
*BA 461	Corporate Financial Policy			5
*ECO 431	Investments	5		
Finance Elective:	ECO 403. Public Finance or *ECO 422. Business Fluctuations		5	
HIS 300 or	History of the U.S. & Georgia			
Electives		5	3	5
PHIL 301	Logic or Math 306		5	
		15	18	15

*Cooperative Program, w/Armstrong State College.

5. *Management-Marketing

JUNIOR YEAR

		Quarter Hours Credit		
		Fall	Winter	Spring
ECO 331-332	Business & Economic Statistics	5	5	
BAD 407	Business Finance			5
BAD 325	Principles of Marketing		5	
BAD 323	Money, Credit & Banking	5		
BAD 317	Business Law			5
Marketing Electives:	(See below)	5	5	5
Elective			3	
		15	18	15

SENIOR YEAR

*BA 411	Marketing Management	5		
BAD 409	Administrative Practice & Intern	5		
BAD 415	Business Organization & Mgmt		5	
BAD 465	Business Policy			5
PHIL 301	Logic or Math 306		5	
*BA 460	Production Planning and Control		5	
HIS 300 or	History of the U.S. & Georgia			5
Electives	(See Below)	5	5	5
		15	15	15

Suggested Electives: Total hours in major field should be 40. Select from BAD 304. Salesmanship & Sales Management: BA 306. Retailing; BA 403. Advertising; BA 412. Personnel Management; ECO 350. Transportation Economics, or equivalent.

6. Office Administration

Course & No.	Descriptive Title	Quarter Hours Credit Fall	Winter	Spring
	JUNIOR YEAR			
ECO 331-332	Business & Economic Statistics	5	5	
BAD 409	Business Finance			5
BAD 300	Business Machines			5
BAD 323	Money, Credit & Banking	5		
BAD 325	Principles of Marketing		5	
OAD 311-312-313	Elementary, Intermediate, and Advanced Shorthand /or	3	3	3
OAD 302-401-402	Advanced Typewriting & Data Proc.			
OAD 301	Administrative Office Practice		3	
BAD 317	Business Law			5
Elective	Elective	2		
		15	16	18
	SENIOR YEAR			
OAD 412-413 or BAD 412	Advanced Shorthand & Transcription / Personnel Management	(3)	(3) 5	
OAD 425-426	Office Mgmt. & Internship	5		5
BAD 415	Business Organization & Mgmt.		5	
HIS 300	History of the U.S. & Georgia	5		
PHIL 301	Logic or Math 306		5	
Electives		5		10
		15	15	15

MINOR PROGRAMS

(30 Hours: Elect six courses or 30 hours)

Economics	Accounting	Business Admin.	Office Adm.
ECO 201-5	ACC 201-5	ECO 201-5	OAD 201-2
ECO 202-5	ACC 202-5	ECO 202-5	OAD 202-2
ECO 302-5	ACC 203-5	BAD 317-5	OAD 203-2
ECO 323-5	ACC 301-5	BAD 325-5	OAD 301-3
ECO 331-5	ACC 302-5	BAD 323-5	OAD 302-3
ECO 401-5	ACC 325-5	BAD 415-5	OAD 303-3
BAD 317-5	ACC 405-5	BAD 300-5	OAD 301-3
	ACC 440-5	ECO 331-5	OAD 401-3
			BAD 300-5
			OAD 302-4
			OAD 425-5

CERTIFICATE PROGRAM

In addition to the degree programs, the Division of Business Administration offers a terminal secretarial science course for students who do not find it convenient to remain in college for four years. Through intensive study and concentrated effort, such students are enabled to prepare for such positions as typists, stenographers, bookkeepers, and file clerks.

Students interested in the two-year program should carefully plan their schedules with the Chairman of the Division of Business Ad-

ministration at the beginning of the first year. All terminal students are reminded that, in addition to courses prescribed below, they must satisfy the history and constitutions requirements.

Upon satisfactory completion of the program, the student is awarded a certificate of proficiency in secretarial science.

TWO-YEAR SECRETARIAL SCIENCE CURRICULUM

FIRST YEAR

BUS ADM 103	Business Mathematics		5	
BUS ADM 104 or MATH 107	Business Mathematics College Algebra			5
BUS ADM 105	Introduction to Business			3
ED 100	Freshman Lectures	(R)		
HUM 107-108-109	English Communicative Skills	5	5	5
OAD 201-202-203	Elementary Typewriting	2	2	2
OAD 311-312-313	Elementary Shorthand	3	3	3
SOS 102	History of Western Culture	5		
		15	15	18

SECOND YEAR

ACCT 201-202-203	Principles of Accounting	5	5	5
BUS ADM 225	Business Communications			3
BUS ADM 300	Business Machines			5
BUS ADM 317	Business Law	5		
EC 201	Principles of Economics		5	
POL SC 200	Advanced Typewriting	4		
OAD 412-413	Advanced Shorthand and Transcription	3	3	
OAD 301	Administrative Office Practice		3	
Elective				3
		17	16	16

GRADUATE PROGRAM

The purpose of the program is to provide an evening schedule of graduate study in business for Savannah-Chatham area residents.

The Master of Business Administration degree is designed to give candidates a broad background of advanced professional training in the management of business enterprises.

For Additional Information: Contact

Dr. James Eaton, Director

Graduate Studies Office
P. O. Box 225
Armstrong State College
11935 Abercorn Street
Savannah, Georgia 31406
(Dr. Mary Clay Torian)
Phone: 354-9715, Ext. 283

Graduate Studies Office
P. O. Box 20388
Savannah State College
Savannah, Georgia 31404
(Dr. Orange Hall)
Phone: 354-5717, Ext. 320

DESCRIPTION OF COURSES

ACCOUNTING

201. PRINCIPLES OF ACCOUNTING. An introductory course in college accounting which is designed to give basic knowledge of accounting principles and methodology. Detailed study of the technique and formation of balance sheets, profit and loss statements, ledger accounts, and journals. Prerequisite: a grade of C or better in both Math 107 and 103 or 110. *Five class hours a week. Fall quarter. Credit, five quarter hours.*

202-203. PRINCIPLES OF ACCOUNTING. An introduction to the accounting principles of partnership, corporations, departmental accounting, branch accounting, accounting controls and taxation. Emphasis on preparation, consolidation, analysis, and interpretation of financial statements and other reports commonly used in modern business establishments. *Five class hours a week. Winter and spring quarters. Credit, five quarter hours each quarter.*

301. INTERMEDIATE ACCOUNTING. Theory and practice of accounts are explained by the problem method. The problems are designed to test the student's ability to analyze and interpret a statement of financial facts. Attention is given to the general literature in the field of accounting. Prerequisites: Accounting 202-203. *Five class hours a week. Fall quarter. Credit, five quarter hours.*

302. INTERMEDIATE ACCOUNTING. Introduction to accounting for investments, funds and reserves. Emphasis on problems of accounting as related to management of business. Prerequisite: Accounting 301. *Five class hours a week. Winter quarter. Credit, five quarter hours.*

303. ADVANCED ACCOUNTING. An intensive study of corporate accounting, analysis, and evaluation of the structure and use of corporate statements and reports, including consolidated statements. Prerequisite: Accounting 302. *Five class hours a week. Spring quarter. Credit, five quarter hours.*

325. FEDERAL INCOME TAX PROCEDURE. An analysis of the Federal Income Tax Law and its application to individuals and partnerships. Extensive practical problems; preparation of returns; administration. Prerequisites: Accounting 202-203. *Five class hours a week. Credit, five quarter hours.*

405. COST ACCOUNTING. A study of basic cost principles, control of manufacturing cost elements, job-order cost systems, standard costs and budget, and managerial uses of costs. The course demonstrates that cost accounting for distribution and for management of non-processing business units, and non-profit enterprises is as essential a part of cost accounting as manufacturing costs. Prerequisites: Accounting 202-203. *One class hour and four two-hour laboratory periods a week. Winter quarter. Credit, five quarter hours.*

440. BUSINESS INFORMATION SYSTEMS. Basic computer concepts applied to systems and methods design, data flow analysis, and the development of an understanding of a need for control procedures in a business information system. Prerequisites: Accounting 302 or consent of instructor. *Five class hours a week. Credit, five quarter hours.*

450. AUDITING. A study of the balance sheet audit, including methods of verifying assets, liabilities, capital and income, and expenses. Prerequisite: Accounting 303 or consent of Instructor. *Five class hours a week. Spring quarter. Credit, five quarter hours.*

460. CPA REVIEW. An intensive study of the approach to and techniques of solving problems of the type presented on CPA examinations. Problem areas and course material selected from recent uniform CPA examinations. (By permission of the Department of Accounting.) *Credit, five quarter hours.*

BUSINESS ADMINISTRATION

105. INTRODUCTION TO BUSINESS. A survey of the fundamental facts, ideas, and conception of modern business enterprises. *Three class hours a week. Spring. Credit, three quarter hours.*

225. BUSINESS COMMUNICATIONS. The application of basic principles of English grammar, basic report writing, and research techniques to presentations and written communications as demanded in business. The role of written communication in relation to new media enters into the consideration given to communication theory. Prerequisite: HMN 107-108-109. *Three class hours a week. Spring and Summer. Credit, three quarter hours.*

300. BUSINESS MACHINES. Designed to familiarize the student with different types of machines used in various offices, and to develop a reasonable degree of skill in the operation of a few of these office machines. *One class hour and four laboratory hours a week. Credit, five quarter hours.*

301. PRINCIPLES OF DATA PROCESSING. A concepts course on modern methods of processing data as related to business; includes the use of computers and unit record systems as facilitating units for the accurate recording and reporting of data. *Three class hours a week. Credit, three quarter hours.*

304. SALESMANSHIP AND SALES MANAGEMENT. A study of personal selling; types of customers; problems of administration; and the selection, training, compensation and management of sales forces. Prerequisites: BAD 325 Marketing. *Five class hours a week. Credit, five quarter hours.*

306. RETAILING. Principles and practices of buying, advertising, selling, and store management as applied to business enterprises. Prerequisites: BAD 325 and ACC 201. *Five class hours a week. Credit, five quarter hours.*

307. PRINCIPLES OF INSURANCE. The theory of insurance and current insurance practices. Uses of insurance, types of insurance, organization types, policies, mortality, etc. *Five class hours a week. Credit, five quarter hours.*

317. BUSINESS LAW. Contracts: their formation, performance rights, and remedies, agencies, sales and their execution; forms and legal effect of negotiable instruments; rights and liabilities of parties to contract. *Five class hours a week. Credit, five quarter hours.*

323. MONEY, CREDIT, AND BANKING. The principles of money and banking with special reference to their functions. Money and its attendant

economic problems; credit; the banking process and the banking system; foreign and domestic exchange; the business cycle; history of banking. *Five class hours a week. Credit, five quarter hours.*

325. PRINCIPLES OF MARKETING. The distribution of goods and services from producers to consumers; market methods employed in assembling, transporting, storage, sales, and risk taking; analysis of a commodity, brands, sales methods and management; advertising plans and media. Prerequisite: ECO 201. *Five class hours a week. Winter. Credit, five quarter hours.*

400. PERSONAL CONTEMPORARY PROBLEMS OF THE HOME, BUSINESS AND INDUSTRY. (Same as Family Life 400.) A course in personal finance. *Five class hours a week. Credit, five quarter hours.*

403. ADVERTISING. Uses and limitations of advertising as a tool of management; and as a factor in the "marketing mix" of an organization; the sales process and psychological objectives of advertising, copywriting, and layout design; types of advertising media; criteria for selection of specific media. Prerequisite: BAD 325. *Five class hours a week. Credit, five quarter hours.*

407. BUSINESS FINANCE. Principles, problems, and practices associated with the financial management of business institutions; nature and types of equity financing; major types of short-term and long-term debt; capitalization; financial statements, working capital requirements, reorganization; bankruptcy; methods of inter-corporate financing. Prerequisite: ECO 331. *Five class hours a week. Credit, five quarter hours.*

409. ADMINISTRATIVE PRACTICE AND INTERNSHIP. One hundred hours of practical work experience are required in offices of Savannah State College and nearby business concerns. In addition, a two-hour weekly seminar is directed toward a study of administrative practices, human relations, and policy development and implementation. By special arrangement, laboratory work may be taken during the summer before the senior year. Off-campus experience is permitted if it is arranged in advance through the Chairman of the Division. *Two class hours and five two-hour laboratory periods a week. Credit, five quarter hours.*

410. ADMINISTRATIVE PRACTICE AND INTERNSHIP. Practical work and seminar requirements are the same as in 409 Administrative Practice and Internship, except that the two-hour weekly seminar is directed toward the completion of a research project in the area of business administration. *Two class hours and five two-hour laboratory periods a week. Credit, five quarter hours.*

412. PERSONNEL MANAGEMENT. The methods and procedures used by business management in recruiting, selecting, and maintaining an efficient work force; nature and use of application form; interviewing techniques; construction and use of service records and job descriptions; job evaluation techniques; grievance procedures; morale and its significance to production. *Five class hours a week. Credit, five quarter hours.*

415. BUSINESS ORGANIZATION AND MANAGEMENT. A comprehensive study of principles of business organization and management. Emphasis is placed upon reports by students in which they collect data and make analyses necessary for organizing a business of their own choosing. *Five class hours a week. Fall. Credit, five quarter hours.*

465. BUSINESS POLICY. The integration of knowledge of the various functional fields of business, with emphasis on decision making. Case study approach. *Five credit hours.*

BUSINESS EDUCATION

350. MATERIALS AND METHODS OF TEACHING BUSINESS SUBJECTS. An analysis of specialized methods used in teaching business subjects on the secondary level, from which the student evolves a personal philosophy to determine teaching procedures. Includes basic principles and curriculum structure of general and vocational business education. Prerequisites: OAD 211-212-213 and 311-312. *Five class hours a week. Credit, five quarter hours.*

450. VOCATIONAL DEVELOPMENT IN THE TEACHING OF DATA PROCESSING. Systems, program languages, computer operation, and techniques of teaching Data Processing. Prerequisite: Math 306-307 (Computer Programming). *Five class hours a week. Credit, five quarter hours.*

ECONOMICS

201. PRINCIPLES OF ECONOMICS I. Basic economic concepts, with emphasis on the role of government; national income and products; business cycles; money and banking; fiscal and monetary policy, and international trade. *Five class hours a week. Fall and Winter. Credit, five quarter hours.*

202. PRINCIPLES OF ECONOMICS II. Basic economics concepts continued from 201. Factors of production; supply and demand; determination of prices and of income; monopolies; the problem of economic growth; and comparative economic systems. *Five class hours a week. Winter and Spring. Credit, five quarter hours.*

302. CURRENT ECONOMIC PROBLEMS. This course examines in depth the important problems and issues which are constantly arising and affect the smoothness and direction of the American economic system. These include Urban Economic Problems: Poverty, inflation, manpower utilization and employment, economic development of the "ghetto," "black capitalism," urban transportation problems, automation, the rate of economic growth, the national budget, consumer credit, income maintenance, and investment trends. Prerequisite: Economics 201. *Five class hours a week. Credit, five quarter hours.*

304. HISTORY OF ECONOMIC THOUGHT. Traces the development of economic doctrines. Contributions of individual writers and schools of thought are examined. Examined are the views of mercantilists, classical economists, neo-classical economists, socialists, and Keynesians on such topics as value, distribution, money, and national economic policy. Economic doctrines are related to social issues of a period. Prerequisite: Economics 201. *Five class hours a week. Credit, five quarter hours.*

305. INTERMEDIATE MICRO-ECONOMIC THEORY. Determination of price in terms of the equilibrium of the business enterprise and consumer choices in markets with varying degrees of competition; determination of wages, rent, interest, and profits. Prerequisites: Economics 201, 202. *Five class hours a week. Credit, five quarter hours.*

306. INTERMEDIATE MACRO-ECONOMIC THEORY. The modern theory of the determination of the level and rate of growth of income, employment,

output, and the price level. Alternate fiscal and monetary policies to facilitate full employment and economic growth are discussed. Prerequisites: Economics 201, 202. *Five class hours a week. Credit, five quarter hours.*

307. ECONOMIC HISTORY OF THE UNITED STATES. The development of agriculture, industry, commerce, transportation from colonial times to the present; problems raised by economic evolution in the United States. *Five class hours a week. Credit, five quarter hours.*

323. MONEY, CREDIT, AND BANKING. The principles of money and banking with special reference to their functions; credit; the banking process and the banking system; foreign and domestic exchange, the business cycle; history of banking. Prerequisite: Economics 201. *Five class hours a week. Credit, five quarter hours.*

332-333. BUSINESS AND ECONOMIC STATISTICS I AND II. (Formerly Economics 450.) Introduces students to the methods of scientific inquiry and statistical application. The essentials of vocabulary, concepts, and techniques; methods of collecting, analyzing, and treating data; measures of central tendency, correlation and deviation, graphic representation, sampling, validity and reliability; time series analysis. *Five class hours a week. Credit, five quarter hours each course.*

345. ECONOMIC DEVELOPMENT. An introduction to the economic and social problems confronting developing nations in Africa, Asia, and Latin America. Variables which affect the growth processes are isolated and analyzed. Considerable attention is focused upon the interaction of economic, political, administrative, and social phenomena and their impact on overall development within the nations studied. Limited use of growth models is employed as an alternative method of analysis. *Five class hours a week. Credit, five quarter hours.*

401. LABOR PROBLEMS. Problems confronting labor and capital; legislation and administrative regulations affecting employer and employees. Prerequisite: Economics 201 or consent of instructor. *Five class hours a week. Credit, five quarter hours.*

402. LABOR AND SOCIAL LEGISLATION. (Formerly Recent Labor Legislation.) A study of legislation designed to provide social and economic protection for men, women, and children. Prerequisites: Economics 201, 401. *Five class hours a week. Credit, five quarter hours.*

403. PUBLIC FINANCE. A study of the effects of taxation upon the economic system; public borrowing and public spending with reference to the present financial system of the United States. Prerequisite: Economics 201. *Five class hours a week. Credit, five quarter hours.*

404. URBAN ECONOMICS. An analysis of urban growth centers and their concomitant problems utilizing the cost-benefit technique of evaluation. Location theory is used to delineate trends in urban growth patterns and activities. Specific urban problems arising from such growth trends as adequate revenue and tax base, human resource utilization, housing and land use, and urban poverty are discussed. Emphasis is placed upon solving such problems in terms of economic efficiency and equity. *Five class hours a week. Credit, five quarter hours.*

405. INTERNATIONAL ECONOMICS. An introduction to the modern theory of international trade, payments mechanism, commercial policy, and economic integration. Prerequisites: Economics 201, 202, 305. *Five class hours a week. Credit, five quarter hours.*

406. COMPARATIVE ECONOMIC SYSTEMS. A comparative study of current economic systems. Prerequisite: twenty hours of economics or consent of the instructor. *Five class hours a week. Credit, five quarter hours.*

OFFICE ADMINISTRATION

201. ELEMENTARY TYPEWRITING. Introduction to the keyboard and touch typewriting. Emphasizes the proper technique of machine operation and control. Introduces speed and accuracy; attractive arrangement of copy; and simple tabulation. Minimum standard for passing: 30 words per minutes on timed writings. Students with previous training in this area may waive the elementary course by passing a qualifying examination. *Five laboratory hours per week. Fall, Winter, and Spring. Credit, two quarter hours each quarter.*

202-203. INTERMEDIATE AND ADVANCED TYPEWRITING. Skill development in typewriting. Business letter writing, forms development, intensive tabulation, and formal reports. Minimum passing speeds: 40 words per minute for 202 and 50 words per minute for 203. *Three class hours a week. Credit, two quarter hours each.*

300. OFFICE MACHINES. (Same as BAD 300.) Acquaintanceship, proficiency, and expert levels of development on five basic classes of machines: Adding and Calculating; copy preparation; duplicating; keypunching; and transcribing. *Six laboratory hours per week. Credit, five quarter hours.*

301. ADMINISTRATIVE OFFICE PRACTICE. A course dealing with office practice, subject-matter, and procedures commonly used in business offices; laboratory in stenographic methods and office machines. Prerequisites: shorthand and typing—one year of each. *Three class hours a week. Credit, three quarter hours.*

302. SPEED DEVELOPMENT IN TYPEWRITING. Continued emphasis on mastery of the typewriter. Writing business letters, copying from rough drafts, tabulating complex material, and stenciling. Minimum standard for passing at the end of the course, 45 and 50 words per minute, respectively, on continuous copy for ten minutes with a maximum of five errors. *Five class hours a week. Fall and Winter. Credit, four quarter hours.*

311-312. ELEMENTARY AND INTERMEDIATE SHORTHAND. (Formerly 211-212.) Beginning courses in Gregg Shorthand, giving a fundamental background in reading and writing shorthand notes. Minimum standard for passing at the end of each course, 40 and 60 words per minute, respectively, for three minutes with 95 per cent accuracy. *Five class hours a week. Fall and Winter. Credit, three quarter hours each quarter.*

313. ADVANCED SHORTHAND. (Formerly 213.) Continuation of 312 with added emphasis on dictation and transcription of simple letters and documents. Minimum standard for passing at the end of the course, 80 words per minute for three minutes with 95 per cent accuracy. *Five class hours a week. Spring. Credit, three quarter hours.*

401. PRINCIPLES OF DATA PROCESSING. An introduction to modern methods of processing data; includes principles of unit record systems and an introduction to computer science. (Same as BAD 301.) *Three class hours a week. Credit, three quarter hours.*

402. IBM KEYPUNCH. Intensive training in the operation of IBM Keypunch machines. Includes instruction on program control, punching computer programs, the development of speed and accuracy in punching and verifying. *Six laboratory hours a week. Credit, two quarter hours.*

412. ADVANCED DICTATION AND TRANSCRIPTION. (Formerly 312.) Development of speed and accuracy in transcribing shorthand notes. Gregg tests and standards used. Minimum passing standard for passing at the end of course, 100 words per minute for three minutes with 95 per cent accuracy. **Prerequisite: One Year (or equivalent) of Gregg Shorthand.** *Five class hours a week. Fall quarter. Credit, three quarter hours.*

GRADUATE COURSES

501. MACRO ECONOMIC ANALYSIS. National income accounting. Determinants of national income, employment, price level and growth rates. *Credit: 5 quarter hours.*

502. MANAGERIAL MICRO ECONOMICS. Price, output, and distribution theory. Economic behavior of households and firms. Prerequisites: Core courses in Economics. *Credit: 5 quarter hours.*

530. INDUSTRIAL RELATIONS. Modern industrial relations and its background. Current problems in labor relations. *Credit: 5 quarter hours.*

540. BUSINESS RELATIONS WITH GOVERNMENT AND SOCIETY. The business environment with consideration of the economic, legal, and social implications for policy making. *Credit: 5 quarter hours.*

580. CORPORATE FINANCIAL POLICIES. Analysis of financial problems and policies of corporations. *Credit: 5 quarter hours.*

610. MANAGERIAL STATISTICS. Applications in economic and business statistics. *Credit: 5 quarter hours.*

611. QUANTITATIVE METHODS IN BUSINESS. The application of models and mathematical techniques to modern decision-making. *Credit: 5 quarter hours.*

630. MANAGERIAL COSTING AND CONTROL. The study of physical and monetary input-output relationships and use of such cost studies for managerial strategy, planning, and control. *Credit: 5 quarter hours.*

640. INFORMATION SYSTEMS. Total Information Systems for managerial strategy, planning and control. *Credit: 5 quarter hours.*

650. MARKETING PROBLEMS SEMINAR. An examination of new developments in the dynamic field of marketing from the viewpoint of the marketing decision-maker. *Credit: 5 quarter hours.*

660. ADVANCED MANAGEMENT SEMINAR. The historical foundations and development of management concepts. Emphasis is upon developing con-

cepts in dealing with emerging problems of management. *Credit: 5 quarter hours.*

662. HUMAN BEHAVIOR AND ORGANIZATION. Contributions and limitations of the behavioral sciences in the development of modern organization theory. *Credit: 5 quarter hours.*

665. BUSINESS POLICY. Policy making and administration from the top management point of view, encompassing the entire field of business administration. Pre-requisites: BA 610, 611, and 30 additional quarter hours of graduate credit. Should be taken near the end of the MBA program. *Credit: 5 quarter hours.*

Note: It should be understood that pre-requisite to all MBA courses, the student should satisfy requirements in the basic business core.

DIVISION OF EDUCATION

THELMA M. HARMOND, *Chairman*

RUBY C. BLACK, *Coordinator, Career Opportunities Program*
VIRGINIA R. BLALOCK
JOHN H. COCHRAN, JR., *Coordinator, Laboratory Experiences*
IDA J. GADSDEN, *Coordinator, Admissions*
DOROTHY C. JAMES
CORNELIA V. LAWSON
HERMAN W. SARTOR, *Head Secondary Education*
JACQUELYN W. STEPHENS
MAURICE S. STOKES, *Coordinator, Media*
JOSEPH W. SUMNER

THOMAS H. EDWARDS, JR., *Principal*
Sol C. Johnson Laboratory School

Associate Faculty: administrators and selected teaching personnel, cooperating school systems—Chatham-Savannah, Glynn, Liberty, Tattnall, Ware, Wayne.

PURPOSES OF THE DIVISION

The Division of Education serves three major purposes: (1) in cooperation with the College-wide Teacher Education Committee and the Georgia Council on Teacher Education and Certification, it spearheads the process of continuous planning, experimentation, and evaluation of the total teacher education program; (2) it assumes leadership responsibility for the selection, guidance, and professional preparation of students who will teach in elementary and secondary schools; (3) it provides an adequate foundation for advanced study for persons who plan to continue their educational preparation beyond the baccalaureate degree.

COLLEGE-WIDE PROVISION FOR TEACHER EDUCATION

In the Division of Education there are three departments: the Department of Elementary Education, the Department of Health, Physical Education and Recreation, and the Department of Secondary Education. The preparation of teachers is, however, a College-wide commitment. Because every division and department at the College is involved in teacher education in some subject matter field, this function engages the constant interest and efforts, staff resources, and facilities of the entire institution.

RECOMMENDATION FOR THE DEGREE AND A TEACHING CERTIFICATE

All teacher education programs at Savannah State College have earned five-year approval from the Georgia Division of Teacher Education and Certification, State Department of Education and hold ten-year endorsement from the National Council for Accreditation of Teacher Education. The programs include: elementary education; secondary education with concentrations in business education, English, French, industrial arts education, mathematics, science, social studies, Spanish, and trade and industrial education; elementary and secondary education: (grades 1-12) in art education, health, physical education, and recreation, and music education. These curricula lead to the degree of Bachelor of Science in Education. Completion of either of these programs entitles the graduate to be recommended to the Georgia Division of Certification for the four-year professional certificate. Reciprocal certification within many states is possible through NCATE accreditation for the graduate who receives unqualified recommendation.

SUPPLEMENTAL CERTIFICATION PROGRAMS

In addition to the baccalaureate teacher education programs listed in the foregoing section, the College provides three supplementary certification programs. Descriptions of the programs follow.

EARLY CHILDHOOD EDUCATION

This program prepares and certifies graduates to teach in kindergartens, nursery schools, and in grades 1 through 3. To pursue this curriculum the student must enroll in the elementary education curriculum and follow the professional education sequence. During the junior and senior years students will take the child development sequence of courses. The teaching practicum will be done in an approved kindergarten. The required sequence follows:

CH DEV 351	Child Development and Guidance
CH DEV 453	Activities and Materials for Early Childhood Education
CH DEV 454	The Child and His Family
NUTR 452	Nutrition for Children

DRIVER EDUCATION

Students enrolled in Secondary education programs and in-service secondary teachers may be recommended for supplementary certification in driver and traffic safety education upon completion of the following courses:

H ED 300	First Aid and Safety
I A ED 320	Introduction to Driver Education
I A ED 310	Advanced Driver and Traffic Safety Education

THE TEACHER-LIBRARIAN PROGRAM

In view of the need to strengthen library service in the schools of Georgia, the College provides a basic training program for teacher-librarians. This is essentially an undergraduate, preprofessional sequence, designed to meet minimum requirements for certification. The work does, however, afford a foundation for further study in library science. The teacher-librarian sequence includes the following courses:

Lib. Sc. 301—School Library Administration and Organization
Lib. Sc. 302—Cataloging and Classification
Lib. Sc. 401—School Library Materials
Lib. Sc. 402—Basic Reference Sources

PURPOSES OF THE TEACHER EDUCATION PROGRAM

The teacher education program of this institution is designed to assist the prospective teacher in attainment of the following: (1) a wide general academic and cultural background; (2) specific command of subject matter competencies; (3) proficiency in the communication skills and ability to assist pupils in developing these skills; (4) functional knowledge of human behavior and of the processes involved in growth, development, and learning; (5) skill in adaptation of subject materials and activities to the needs and interests of pupils; (6) ability to further good human relationships; and (7) ability to think and plan effectively.

GENERAL PLAN OF STUDY

The first two years of teacher education are largely devoted to general education. Study is included in the areas of art, the biological

and physical sciences, communication skills, general college and vocational orientation, mathematics, health and physical education, music, and the social sciences.

In the junior and senior years, the prospective teacher works in three interrelated areas: (1) the teacher education sequence; (2) the subject matter concentration and (3) elective courses—which provide a second strength or minor pattern.

The quantitative requirement for graduation in this division is 195 quarter hours, including prescribed health and physical education and orientation courses.

REQUIRED TEACHER EDUCATION SEQUENCE

The following courses comprise the minimum core of professional preparation required of all students who plan to teach in the elementary or the secondary school:

ED 216	Introduction to Teaching
ED 307	Health Education and Media
ED 317	Human Growth and Learning
ED 429	Curriculum and Teaching
ED 430	Student Teaching

These courses are to be completed satisfactorily in the order listed. Failure to do so results in loss of credit.

When appropriate, students are grouped in Ed. 317 and Ed. 429 according to major interests and teaching levels.

ADMISSION TO THE TEACHER EDUCATION PROGRAM

During the sophomore year, students who plan to complete a curriculum in teacher education are required to submit to the Division of Education an application for admission to the teacher education program. Applications will be screened, and applicants will be notified individually of the action taken on their applications.

The eligibility of applicants for admission to the program will be determined in accordance with the following criteria:

1. Completion of at least sixty (60) quarter hours of general education including ED 216, or enrollment in ED 216.
2. Completion of all English requirements, including HUM 200 if applicable.
3. Minimum grade-point average of 2.25.

4. Possession of characteristics such as physical and intellectual vigor, honesty, enthusiasm, open-mindedness, resourcefulness, and maturity.

Students must seek admission to teacher education at least the quarter preceding their expected enrollment in Ed. 317—Human Growth and Learning.

RETENTION IN THE TEACHER EDUCATION PROGRAM

After admission to the teacher education program, students will be expected to meet the following requirements:

1. Completion of the teacher education sequence in the prescribed order.
2. Maintenance of a general cumulative average of 2.25 or better.
3. Maintenance of at least a grade of C in each course in the major concentration and in the teacher education sequence.

Students failing to meet the foregoing requirements will be placed on probation and will be disallowed enrollment in all courses in the teacher education sequence during the period of probation.

Students who fail promptly to remove deficiencies in these requirements will be asked to withdraw from the teacher education program.

ADMISSION TO STUDENT TEACHING

Formal application must be made for admission to student teaching. Appropriate forms may be obtained from the office of the Coordinator of Laboratory Experiences.

For admission to student teaching, the student must be in good standing in the Teacher Education program. He must obtain the approval of (1) the chairman or designated adviser in his field of concentration and (2) the Chairman of Teacher Education or his designee (Head of Secondary or Elementary Education).

Specifically the student:

1. Must be in good standing in the teacher education program.
2. Must have completed the teacher education sequence in the prescribed order with at least the grade of C in each course.
3. Must have completed his major content sequence with grades of C or better.

The student will not be permitted to take an additional course during the quarter in which he registers for Edn. 430 - Student Teaching.

MAJOR COMPREHENSIVE EXAMINATION

To satisfy the institutional requirement for the comprehensive examination, all students in teacher education are required to take both the common examination and the teaching area of the National Teacher Examinations. It is recommended that students take the examinations during the quarter of the enrollment in Edn. 429, Curriculum and Teaching, or the subsequent quarter.

TEACHER EDUCATION PROGRAMS

Elementary Education

Secondary Education

- Business Education
- English Education
- Industrial Arts Education
- Mathematics
- Modern Languages
  - French
  - Spanish
- Science Education
  - Biology
  - Earth Sciences
  - Chemistry
  - Physics
- Social Science
  - History
- Trade and Industrial Education

Grades 1 -12

- Art
- Health, Physical Education, and Recreation
- Music

ELEMENTARY EDUCATION PROGRAM

ELEMENTARY EDUCATION CURRICULUM

	FRESHMAN YEAR			
BIO 123-124	General Biology	5	5	
EDN 100	Freshman Lectures	(R)		
HUM 107-108-109	English Communicative Skills	5	5	5
HUM 131	Introduction to Music and Art	5		
MATH 107	College Algebra & Trigonometry			5
P ED 111, 113	Seasonal Activities	1		1
SOC SC 101-102	History of Western Culture		5	5
		16	15	16
	SOPHOMORE YEAR			
SOC SC 201	Psychological Basis for Human Behavior	5		
HUM 141-142 or	Elementary French			
HUM 151-152 or	Elementary German			
HUM 161-162	Elementary Spanish	5	5	
HUM 207-208-209	World Literature	3	3	3
P ED 211-212-213	Seasonal Activities	1	1	1
EDN 216	Introduction to Teaching		5	
NAT SC 203	Physical Science			5
P ED 233	Elementary Mass Activity			3
SOC SC 111	World and Human Geography			5
		14	14	17
	JUNIOR YEAR			
EDN 317	Human Growth and Learning	8		
EDN 307	Health Education and Media	6		
HIST 300	History of the United States and Georgia	5		
MUS EDN 300	Fundamentals of Music Elementary Grades		3	
POL SC 200	Government		5	
EDN 347	Audio-Visual Materials and Methods		5	
Elective[2]			5	
MUS EDN 301	Elementary School Music Methods		3	
PHIL 300 or 301 or 302	Introduction to Logic or Ethics			5
Electives				10
		19	18	18

[1]If the student has satisfied the history requirement, he should take an additional elective.

[2]Early childhood education majors will elect the child development sequence.

SENIOR YEAR

Course & No.	Descriptive Title	Quarter Hours Credit Fall	Winter	Spring
EDN 341	Seminar in Elementary School Curriculum	15		
EDN 429	Curriculum and Teaching		8	
ART ED 401	Public School Art		5	
Elective			5	
EDN 430	Student Teaching			15
		15	18	15
	Total quarter hours required for graduation			195

SECONDARY EDUCATION PROGRAMS

BUSINESS TEACHERS CURRICULUM

FRESHMAN YEAR

Course & No.	Descriptive Title	Quarter Hours Credit Fall	Winter	Spring
HUM 107-108-109	English Communicative Skills	5	5	5
SOC SC 101 or 102	History of Western Culture	5		
MATH 107	College Algebra and Trigonometry		5	
HUM 131	Introduction to Music and Art			5
EDN 100	Freshman Lectures	(R)		
PED 111-113	Seasonal Activities / or Swimming	1		1
BIO 123-124	General Biology	5	5	
Electives:	BAD 103 Business Mathematics			5
	BAD 105 Intro to Business Org.		3	
		16	18	16

SOPHOMORE YEAR

ACC 201-202	Principles of Accounting			
ECO 201-202	Principles of Economics	5	5	
HUM 207-208-209	World Literature	3	3	3
OAD 201-202-203	Typewriting	2	2	2
SOC SC 201	Psych. Basis for Human Behavior			5
POL SCI 200	Government			5
PED 211-212-213	Seasonal Activities or/ Swimming	1	1	1
		16	16	16

Option 1. — Comprehensive

JUNIOR YEAR

EDN 216	Introduction to Teaching		5	
EDN 317	Human Growth and Development			8
EDN 307	Health Education and Media			6
BAD 317	Business Law	5		
BAD 325	Principles of Marketing		5	
OAD 300	Business Machines	5		
OAD 311-312-313	Shorthand & Transcription	3	3	3
OAD 301	Administrative Office Practice		3	
BAD 225	Business Communications	3		
		16	16	17

SENIOR YEAR

Course & No.	*Descriptive Title*	*Quarter Hours Credit* Fall	Winter	Sprin
EDN 441	Student Teaching & Seminar		15	
EDN 429	Curriculum	8		
BED 350	Methods of Tchg. Bus. Subjs.	5		
BAD 415	Business Organization & Mgmt.	5		
ECO 331	Business & Economic Statistics			5
HIS 300	History of U.S. & Ga.			5
PHIL 301	Logic			5
		18	15	15

Option 2. Bookkeeping and Business Management

JUNIOR YEAR

Course & No.	*Descriptive Title*	*Quarter Hours Credit* Fall	Winter	Sprin
EDN 216	Introduction to Teaching	5		
EDN 317	Human Growth and Development		8	
BED 350	Methods of Tchg. Bus. Subj.			5
BAD 317	Business Law	5		
BAD 300	Business Machines			5
BAD 325	Principles of Marketing		5	
ACC 203	Principles of Accounting			5
BAD 225	Business Communications	3		
OAD 401	Modern Data Processing Methods		3	
ECO 323	Money, Credit & Banking	5		
		18	16	15

SENIOR YEAR

EDN 429	Curriculum		8	
EDN 441	Student Teaching & Seminar			15
EDN 307	Health Education and Media		6	
ECO 331	Business & Economic Statistics	5		
BAD 415	Business Organization & Mgmt.	5		
HIS 300	History of U.S. & Ga.	5		
PHIL 301	Logic		5	
		15	19	15

Option 3. Business Data Processing and Accounting

A student may qualify for this new area of certification by completing 198 quarter hours instead of 195; and in lieu of ECON 202, ECON 323, PHIL 301, OAD 202-203, and BED 350, substitute the following courses:

MATH 306-307—Computer Programming	10
OAD 402—IBM Keypunch	2
BED 450—Voc. Dev. in Tch. Data Proc.	5
T & I 205 or 310—History & Philosophy of Vocational Education	5
ACC 440—Business Data Proc. Systems	5

ENGLISH TEACHERS CURRICULUM

Course & No.	Descriptive Title	Quarter Hours Credit Fall	Winter	Spring
	FRESHMAN YEAR			
BIO 123-124	General Biology	5	5	
EDN 100	Freshman Lectures	(R)		
HUM 107-108-109	English Communicative Skills	5	5	5
HUM 131	Introduction to Music and Art	5		
MATH 107	College Algebra & Trigonometry			5
P ED 111, 113	Seasonal Activities	1		1
SOC SC 101-102	History of Western Culture		5	5
		16	15	16
	SOPHOMORE YEAR			
ENG 204	Advanced Composition			5
HUM 207-208-209	World Literature	3	3	3
HUM 141-142-143 or	Elementary French	5	5	5
HUM 151-152-153 or	Elementary German			
HUM 161-162-163	Elementary Spanish			
NAT SC 203	Physical Science			5
P ED 211-212-213	Seasonal Activities	1	1	1
SOC SC 111	World and Human Geography	5		
SOC SC 201	Psychological Basis for Human Behavior	5		
EDN 216	Introduction to Teaching		5	
		19	14	19
	JUNIOR YEAR			
EDN 307	**Health Education and Media**	6		
EDN 317	Human Growth and Learning		8	
ENG 306	Contemporary Prose and Poetry			5
ENG 320	Introduction to the English Language			5
ENG 210 or 211	Survey of Eng. Lit.		5	
HIST 300[1]	History of the United States and Georgia	5		
POL SC 200	Government	5		
ENG 220 or 221	Survey of Am. Lit.		5	
Electives	(Including 1 genre)			4
ENG 450, 451, or 452	Seminar in English	1	1	
		17	19	14
	SENIOR YEAR			
EDN 429	Curriculum and Teaching	8		
EDN 430	Student Teaching			15
ENG 401	Shakespeare		5	
ENG 413	Advanced Speech	5		
PHIL 300	Introduction to Philosophy	5		
Electives			8	
		18	13	15
	Total quarter hours required for graduation			195

[1]If the student has satisfied the history requirement through examination, he should take an elective.

INDUSTRIAL ARTS EDUCATION CURRICULUM

FRESHMAN YEAR

Course & No.	*Descriptive Title*	*Quarter Hours Credit* Fall	Winter	Spring
EDN 100	Freshman Lectures	(R)		
HUM 107-108-109	English Communication Skills	5	5	5
HUM 131	Introduction to Music & Art			5
MATH 107-108	College Algebra & Trigonometry	5	5	
MECH TECH 101-102-103	Engineering Drawing	5	5	5
P ED 111, 113	Seasonal Activities	1		1
		16	15	16

SOPHOMORE YEAR

CHEM 101-102 or BIO 123-124	General Organic Chemistry or General Biology	5	5	
EC 201	Principles of Economics			5
IA ED 201	Wood Processing I	5		
IA ED 202	Wood Processing II		5	
P ED 211-212-213	Seasonal Activities	1	1	1
SOC SC 101-102	History of Western Culture	5	5	
SOC SC 201	Psychological Basis for Human Behavior			5
IA ED 203	Industrial Arts Design			5
		16	16	16

JUNIOR YEAR

EDN 216	Introduction to Teaching	5		
EDN 317	Human Growth and Learning			8
ELECS TECH 322	Technical Sciences Seminar		1	
IA ED 301	Architectural Drafting	5		
IA ED 302	Power Mechanics		5	
MECH TECH 312-313	Metal Processing I-II		5	5
PHYSICS 201	General Physics	5		
IA ED 312	General Electricity		5	
Elective				6
		15	16	19

SENIOR YEAR

EDN 430	Student Teaching		15	
HIST 300	History of the U.S. & Ga.	5		
IA ED 411	Curriculum Building and Shop Organization in Industrial Arts Education	5		
IA ED 413	Electrical Motors			5
IA ED 421	Methods of Teaching Industrial Arts	5		
POL SC 200	Government			5
IA ED 401	Industrial Arts Electronics	5		
Elective				5
		20	15	15

Total quarter hours required for graduation 195

MATHEMATICS TEACHERS CURRICULUM

Course & No.	*Descriptive Title*	*Quarter Hours Credit* Fall	Winter	Spring
	FRESHMAN YEAR			
BIO 123	General Biology			5
EDN 100	Freshman Lectures	(R)		
HUM 107-108-109	English Communicative Skills	5	5	5
HUM 131	Introduction to Music and Art			5
MATH 108	College Algebra & Trigonometry	5		
P ED 111, 113	Seasonal Activities	1		1
SOC SC 101-102	History of Western Culture	5	5	
PSC 200	Government		5	
		16	15	16
	SOPHOMORE YEAR			
EC 201	Principles of Economics		5	
HUM 141-142-143	Elementary French	5	5	5
or				
HUM 151-152-153	Elementary German			
or				
HUM 161-162-163	Elementary Spanish			
HUM 207-208-209	World Literature	3	3	3
MATH 212-213-214	Analysis I-II-III	5	5	5
P ED 211-212-213	Seasonal Activities	1	1	1
SOC SC 201	Psychological Basis for Human Behavior			5
Electives		2		
		16	19	19
	JUNIOR YEAR			
EDN 216	Introduction to Teaching		5	
HIST 300[1]	History of the United States and Georgia			5
MATH 217	Introduction to Probability and Statistics	5		
MATH 315-A	Modern Algebra I	5		
MATH 315-B	Modern Algebra II		5	
PHYS 201-202-203	General Physics	5	5	5
POL SC 200	Government			
EDN 307	Health Education and Media			6
		15	15	16
	SENIOR YEAR			
EDN 317	Human Growth and Learning	8		
EDN 429	Curriculum and Teaching		8	
EDN 430	Student Teaching			15
MATH 321	Introduction to Higher Geometry	5		
MATH 411	Advanced Calculus		5	
Electives	(Major or Minor)	5	2	
		18	15	15
	Total quarter hours required for graduation			195

[1]If the student has satisfied the history requirement through examination, he should take an elective.

MODERN LANGUAGES TEACHERS CURRICULA

French Teachers Curriculum

FRESHMAN YEAR

Course & No.	*Descriptive Title*	*Quarter Hours Credit* Fall	Winter	Spring
BIO 123-124	General Biology	5	5	
EDN 100	Freshman Lectures	(R)		
HUM 107-108-109	English Communicative Skills	5	5	5
HUM 131	Introduction to Music and Art			5
HUM 141-142-143	Elementary French	5	5	5
P ED 111-113	Seasonal Activities	1		1
		16	15	16

SOPHOMORE YEAR

French 241-242	Intermediate French	5	5	
French 243	French Conversation and Composition			5
HUM 207-208-209	World Literature	3	3	3
MATH 107	College Algebra and Trigonometry			5
P ED 211-212-213	Seasonal Activities	1	1	1
SOC SC 101-102	History of Western Culture	5	5	
SOC SC 111	World and Human Geography			5
		14	14	19

JUNIOR YEAR

EDN 216	Introduction to Teaching		5	
EDN 317	Human Growth and Learning			8
FRN 341-342	Survey of French Literature	3	3	
FRN 343	French Civilization		4	
FRN 344	Oral Communication			5
EDN 307	Health Education and Media			6
NAT SC 203	Physical Science	5		
SOC SC 201	Psychological Basis for Human Behavior	5		
POL SC 200	Government		5	
Elective	Junior or Senior Course	4		
		17	17	19

SENIOR YEAR

EDN 429	Curriculum and Teaching	8		
EDN 430[1]	Student Teaching			15
FRN 444	Literature of the XXth Century	5		
FRN 441 or 442	French Elective		5	
HIST 300[2]	History of the U.S. and Georgia		5	
PHIL 300 or 301 or 302	Introduction, Logic or Ethics	5		
Elective	Junior or Senior Course		5	
		18	15	15

Total quantitative requirement for graduation: 195 quarter hours.

[1]Before taking this course, the student participates in a non-credit seminar in Methods of Teaching Foreign Languages.

[2]If the student has satisfied the history requirement through examination, he should take a junior or senior elective.

Spanish Teachers Curriculum

FRESHMAN YEAR

Course & No.	*Descriptive Title*	*Quarter Hours Credit* Fall	Winter	Spring
BIO 123-124	General Biology	5	5	
EDN 100	Freshman Lectures	(R)		
HUM 107-108-109	English Communicative Skills	5	5	5
HUM 131	Introduction to Music and Art			5
HUM 161-162-163	Elementary Spanish	5	5	5
P ED 111-113	Seasonal Activities	1		1
		16	15	16

SOPHOMORE YEAR

HUM 207-208-209	World Literature	3	3	3
MATH 107	College Algebra and Trigonometry			5
P ED 211-212-213	Seasonal Activities	1	1	1
SOC SC 101-102	History of Western Culture	5	5	
SOC SC 111	World and Human Geography			5
SPN 261-262	Intermediate Spanish	5	5	
SPN 263	Spanish Conversation and Composition			5
		14	14	19

JUNIOR YEAR

EDN 216	Introduction to Teaching		5	
EDN 317	Human Growth and Learning			8
EDN 307	Health Education and Media			6
NAT SC 203	Physical Science	5		
SOC SC 201	Psychological Basis for Human Behavior	5		
POL SC 200	Government		5	
SPN 361-362	Survey of Spanish Literature	3	3	
SPN 363	Spanish Civilization		4	
SPN 364	Oral Communication			5
Elective	Junior or Senior Elective	4		
		17	17	19

SENIOR YEAR

EDN 429	Curriculum and Teaching	8		
EDN 430[1]	Student Teaching			15
HIST 300[2]	History of the U.S. and Georgia		5	
PHIL 300 or 301 or 302	Introduction, Logic or Ethics	5		
SPN 463	Spanish-American Literature	5		
SPN 461 or 462	Spanish Elective		5	
Elective	Junior or Senior Course		5	
		18	15	15

Total quantitative requirement for graduation: 195 quarter hours.

[1]Before taking this course, the student participates in a non-credit seminar in Methods of Teaching Foreign Languages.

[2]If the student has satisfied the history requirement through examination, he should take a junior or senior elective.

SCIENCE TEACHERS CURRICULA
Biology Concentration

Course & No.	*Descriptive Title*	*Quarter Hours Credit* Fall	Winter	Spring
	FRESHMAN YEAR			
EDN 103	Freshman Lectures	(R)		5
CHEM 101-104	General Inorganic	5	5	
BIO 128	Principles of Biology			3
HMN 107-108-109	English Communicative Skills	5	5	5
SOC SC 111	World and Human Geography			5
MATH 107-108	College Algebra and Trigonometry	5	5	
P ED 111-113	Seasonal Activities		1	1
		15	16	19
	SOPHOMORE YEAR			
BIO 200	Molecular and Cellular Biology	3		
CHEM 307	Organic Chemistry	5		
HIST 300	History of Georgia and U. S.		5	
SOC SC 201	Psychological Basis for Human Behavior			5
HMN 132-133-134	Introduction to Humanities	5	5	4
BIO 201	Organismal Biology		3	
BIO 202	Biological Organization and Control			3
BIO 203	Environmental Biology			3
EDN 216	Introduction to Teaching		5	
P ED 211-212-213	Seasonal Activities	1	1	1
		14	19	16
	JUNIOR YEAR			
BIO 303	Genetics			5
CHEM 404	Biochemistry		5	
EDN 317	Human Growth and Learning			8
EDN 307	Health Education and Media	6		
BIO 301	Botany		5	
BIO 318	Vertebrate Structure and Function	5		
PHY 201-202-203	General Physics	5	5	5
		16	15	18
	SENIOR YEAR			
BIO 307	Anatomy and Physiology		5	
ESC 211	Earth Science	5		
BIO 435	Biological Science Curriculum Lab	8		
EDN 429	Curriculum and Teaching		8	
EDN 430	Student Teaching			15
MATH 217	Introduction to Probability and Statistics	5		
	Seminar		1	
		18	14	15

Quarter Hours Required 195

Chemistry Concentration

FRESHMAN YEAR

Course & No.	*Descriptive Title*	*Quarter Hours Credit* Fall	Winter	Spring
BIO 125	Introduction to Biological Sciences	5		
BIO 126	Invertebrate Zoology		5	
BIO 127	Vertebrate Zoology			5
EDN 100	Freshman Lecture	(R)		
HUM 107-108-109	English Communicative Skills	5	5	5
HUM 131	Introduction to Music & Art		5	
P ED 111-113	Seasonal Activities	1		1
SO SC 102	History of Western Culture	5		
SO SC 111	Geography			5
		16	15	16

SOPHOMORE YEAR

BIO 204	General Botany	5		
CHEM 101-102-103	General Inorganic	5	5	5
ED 216	Introduction to Teaching			5
HUM 207-208-209	World Literature	3	3	3
HIST 300	History of Georgia & U.S.			5
MATH 107-108	College Algebra & Trigonometry	5	5	
P ED 211-212-213	Seasonal Activities	1	1	1
SO SC 201	Psychological Basis for Human Behavior		5	
		19	19	19

JUNIOR YEAR

CHEM 307-308	Organic Chemistry	5		5
CHEM 309	Qualitative Organic Analysis		5	
CHEM 404	Biochemistry		5	
ED 317	Human Growth & Learning			8
EDN 307	Health Education and Media	6		
PHYS 301-302	General Physics	5	5	
Electives				5
		16	15	18

SENIOR YEAR

BIO 307	Anatomy & Physiology	5		
CHEM 303-304	Analytical Chemistry	5	5	
ESC 221	Earth Science	5		
ED 429	Curriculum & Teaching		8	
ED 430	Student Teaching			15
		15	13	15

Total quarter hours required for graduation 196

Earth Science Concentration[1]

FRESHMAN YEAR

Course & No.	*Descriptive Title*	*Quarter Hours Credit* Fall	Winter	Spring
MAT 108	College Algebra & Trigonometry			5
CHE 101-102	General Inorganic Chemistry		5	5
EDN 100	Freshman Lectures	(R)		
HMN 107-108-109	English Communicative Skills	5	5	5
HMN 132-133-134	Introduction to Humanities	5	5	4
PED 111-113	Seasonal Activities	1	1	
SOS 102	History of Western Culture	5		
		16	16	19

SOPHOMORE YEAR

BIO 128	Principles of Biology			5
GEO 200	Physical Geography	5		
ESC 223	Astronomy & Space Science			5
PHY 201-202	General Physics	5	5	
MAT 212-213	Analysis I, II	5	5	
SOC 201	Psychological Basis for Human Behavior		5	
EDN 216	Introduction to Teaching			5
PED 211-212-213	Seasonal Activities	1	1	1
		16	16	16

JUNIOR YEAR

PED 321	Beginner's Swimming	1		
CHE 307	Organic Chemistry	5		
EDN 317	Human Growth & Learning			8
EDN 307	Health Education and Media	6		
GEO 300	Principles of Geology		5	
ESC 320	Introduction to Meteorology	5		
BIO 306	General Bacteriology			5
HIS 300	History of Georgia & U. S.		5	
PSC 200	Government		5	
Electives				4
		17	15	17

SENIOR YEAR

GEO 404	Marine & Environmental Geology	5		
EDN 429	Curriculum & Teaching		8	
EDN 430	Student Teaching			15
ESC 420	Weather & Climate	5		
ESC 490a-490b	Special problems in Earth Sciences	1	1	
ESC 499	Research in Earth Sciences		2	
Electives		5		
Electives			5	
		16	16	15

Total quarter hours required for graduation 195

[1]Program pending State Department of Education approval.

Earth Science Electives

Course & No.	*Descriptive Title*	*Quarter Hours*
GEO 221	Earth Sciences	5
BIO 311	General Oceanography	5
GEO 310	Mineral Resources	3
GEO 400	Stratigraphy	5
GEO 406	Structural Geology	3
GEO 408	Geomorphology	3
GEO 410	Petrology and Petrography	5
GEO 425	Interactions of Global Environment	4
GEO 430	Introduction to Geophysics	4
GEO 440	Introduction to Geochemistry	4

Physics Concentration

FRESHMAN YEAR

Course & No.	*Descriptive Title*	*Quarter Hours Credit* Fall	Winter	Spring
BIO 125	Introduction to Biological Sciences	5		
*MATH 107	College Algebra & Trigonometry		5	
*MATH 108	College Algebra & Trigonometry			5
EDN 100	Freshman Lecture	(R)		
HUM 107-108-109	English Communicative Skills	5	5	5
HUM 131	Introduction to Music & Art		5	
P ED 111-113	Seasonal Activities	1		1
SO SC 102	History of Western Culture	5		
SO SC 111	Geography			5
		16	15	16

SOPHOMORE YEAR

BIO 204	General Botany	5		
CHEM 101-102-103	General Inorganic	5	5	5
EDN 216	Introduction to Teaching			5
HUM 207-208-209	World Literature	3	3	3
HIST 300	History of Georgia & U.S.			5
*MATH 211-212	Analysis	5	5	
P ED 211-212-213	Seasonal Activities	1	1	1
SO SC 201	Psychological Basis for Human Behavior		5	
		19	19	19

JUNIOR YEAR

CHEM 307	Organic Chemistry	5		
EDN 317	Human Growth & Learning			8
EDN 307	Health Education and Media	6		
PHYS 300	Mathematical Physics		5	
PHYS 301-302-303	General Physics	5	5	5
PHYS 306	Advance Heat & Mechanics			5
Electives			5	
		16	15	18

*Student may omit either or both courses in this sequence upon presentation of evidence of recommendation.

SENIOR YEAR

Course & No.	Descriptive Title	Quarter Hours Credit Fall	Winter	Spring
*MATH 404	Differential Equations	5		
ESC 221	Earth Science	5		
EDN 429	Curriculum & Teaching		8	
EDN 430	Student Teaching			15
PHYS 307	Illumination & Optics	5		
PHYS 400	Modern Physics		5	
		15	13	15

Total quarter hours required for graduation 196

CURRICULUM FOR TEACHERS OF SOCIAL STUDIES

History Concentration

FRESHMAN YEAR

Course & No.	Descriptive Title	Quarter Hours Credit Fall	Winter	Spring
EDN 100	Freshman Lectures	(R)		
BIO 123-124	General Biology	5	5	
HUM 107-108-109	English Communicative Skills	5	5	5
HUM 131	Introduction to Music and Art			5
P ED 111, 113	Seasonal Activities	1	1	
SOC SC 101-102	History of Western Culture	5	5	
SOC SC 111	World and Human Geography			5
		16	16	15

SOPHOMORE YEAR

HUM 141-142-143 or HUM 151-152-153 or HUM 161-162-163	Elementary French or Elementary German or Elementary Spanish	5	5	5
HUM 207-208-209	World Literature	3	3	3
MATH 107	College Algebra & Trigonometry	5		
NAT SC 203	Physical Science			5
P ED 211-212-213	Seasonal Activities	1	1	1
SOC SC 201	Psychological Basis for Human Behavior		5	
POL SC 200	Government			5
		14	14	19

JUNIOR YEAR

EC 201	Principles of Economics	5		
EDN 216	Introduction to Teaching		5	
EDN 317	Human Growth and Learning			8
HIST 301-302-303	History of the United States	5	5	5
HIST 331-332	History of Europe		5	5
SOC 301	Introduction to Sociology	5		
		15	15	18

SENIOR YEAR

Course & No.	*Descriptive Title*	*Quarter Hours Credit* Fall	Winter	Spring
EDN 429	Curriculum and Teaching	8		
EDN 430	Student Teaching			15
EDN 307	Health Education and Media	6		
HIST 408	History of Russia since 1815	5		
HIST 415	History of the Far East		5	
SOC SC 420	Democracy versus Communism		5	
Electives			9	
		19	19	15
	Total quarter hours required for graduation			195

TRADE AND INDUSTRIAL EDUCATION CURRICULUM

(This program is open to graduates of area vocational-technical schools and persons coming out of industry with acceptable training and experience in the occupations they plan to teach.)

FRESHMAN YEAR

Course & No.	*Descriptive Title*	Fall	Winter	Spring	Summer
EDN 100	Freshman Lectures	(R)			
HUM 131	Introduction to Music and Art			5	
MATH 107-108	College Algebra & Trigonometry	5	5		
HUM 107-108-109	English Communicative Skills	5	5	5	
CHEM 101-102 or BIOL 123-124	General Inorganic Chemistry / General Biology	5	5		
PHY SC 203	Physical Science			5	
P ED 111, 113, 211	Seasonal Activities	1	1	1	
TIED 100	Cooperative Industrial Work Experience				5
		16	16	16	5

SOPHOMORE YEAR

EC 201	Principles of Economics	5			
EDN 216	Introduction to Teaching			5	
SOC SC 201	Psychological Basis for Human Behavior	5			
P ED 212-213	Seasonal Activities	1		1	
SOC SC 101-102	History of Western Culture	5		5	
POL SC 200	Government			5	
TIED 200-210	Cooperative Industrial Work Experience		5		5
		16	5	16	5

JUNIOR YEAR

Course & No.	*Descriptive Title*	*Fall*	*Winter*	*Spring*	*Summer*
EDN 317	Human Growth and Learning	8			
TIED 301	History of Vocational Education	5			
TIED 302	Industrial Education Curriculum		5		
TIED 303	Shop Management			5	
EC 302	Current Economic Problems		5		
HIST 300	History of the U.S. & Ga.		5		
TIED 311-313	Occupational Competency Exam.				
Technical	or				
Electives		5		5	
Elective				5	
TIED 300	Cooperative Industrial Work Experience				5
		18	15	15	5

SENIOR YEAR

Course & No.	*Descriptive Title*	*Quarter Hours Credit* *Fall*	*Winter*	*Spring*
TIED 421	Methods of Teaching Industrial Subjects	5		
EC 401	Labor Problems	5		
EDN 430	Student Teaching		15	
TIED 401-402-403	Occupational Competency Examination			
	or			
Technical Electives		5		10
Elective		2		5
		17	15	15

Total quarter hours required for graduation 195

Cooperative Industrial Work Experience
Persons with sufficient amount of work experience for professional certification in this teaching field may take technical courses in lieu of this requirement.

Technical Electives
Graduates of vocational-technical schools and others with competency in an occupation of this teaching field may receive credit for technical electives by successfully passing occupational competency examinations.

Students are expected to enlarge their technical teaching fields (cluster concept development) by taking engineering technology and industrial arts technical courses as their electives.

PROGRAMS FOR TEACHERS OF GRADES 1-12

Art Education Curriculum

		Quarter Hours Credit		
		Fall	Winter	Spring
FRESHMAN YEAR				
ART 103	Basic Art	5		
ART 108	Drawing		4	
ART 116	Crafts I			3
EDN 100	Freshman Lectures	(R)		
BIOL 123-124	General Biology		5	5
HUM 107-108-109	English Communicative Skills	5	5	5
MATH 107	College Algebra & Trigonometry	5		
SOC SC 101[1]-102	History of Western Culture		5	5
P ED 111	Seasonal Activities	1		
		16	19	18
SOPHOMORE YEAR				
ART 217	Crafts II	3		
ART 238-239	Ceramics I & II		3	3
ART 250	Introduction to World Art			3
HUM 132[2]	Introduction to Humanities	5		
HUM 141-142-143 or	Elementary French			
151-152-153 or	Elementary German			
161-162-163	Elementary Spanish	5	5	5
PHYS SC 203	General Physics		5	
POL SC 200	Government			5
SOC SC 201	Psychological Basis of Human Behavior		5	
P ED 113	Seasonal Activities	1		
P ED 211-212-213	Seasonal Activities	1	1	1
		15	19	17
JUNIOR YEAR				
ART 322-323	Painting I & II		5	5
ART 333	Sculpture			5
ART ED 304	Art Education	3		
ED 216	Introduction to Teaching	5		
HIST 200[3]	History of U.S. & Georgia	5		
EDN 317	Human Growth & Learning		8	
EDN 307	Health Education and Media			6
Elective	Elective	3		
		16	13	16
SENIOR YEAR				
ART 430	Printmaking	4		
ART 450-451	History of Art I & II	3	3	
ART ED 401	Public School Art	5		
ART ED 409	Seminar in Art Problems		3	
EDN 429	Curriculum and Teaching		8	
EDN 430	Student Teaching			15
Electives	Electives	5		
		17	14	15
Total quarter hours required for graduation				195

[1]Social Science 101 is to be substituted for History 200 in Area III of the Core Curriculum.
[2]Humanities 132 is substituted in Area I of the Core Curriculum for Humanities 131 and 207-8-9.
[3]If the student has satisfied the history requirement through examination, he should take an elective.

Music Education Curriculum

Course & No.	Descriptive Title	Quarter Hours Credit Fall	Winter	Spring
	FRESHMAN YEAR			
MUS 100[1]	Band-Choral Society-Men's Glee Club	1	1	1
MUS 101-102-103	Fundamentals of Instruments/Voice	1	1	1
MUS 104-105-106	Applied Major Area	1	1	1
MUS 111-112-113	Theory I (Ear-Training & Sight Singing)	3	3	3
EDN 100	Freshman Lectures	(R)		
BIO 123-124	General Biology		5	5
MATH 107	College Algebra & Trigonometry	5		
HUM 107-108-109	English Communicative Skills	5	5	5
P ED 111, 113	Seasonal Activities	1		1
		17	16	17
	SOPHOMORE YEAR			
MUS 200	Band-Choral Society-Men's Glee Club	1	1	
MUS 201-202-203	Intermediate Instruments/Voice	1	1	1
MUS 204-205-206	Applied Major Area	1	1	1
MUS 211-212-213	Theory II(Harmony)	3	3	3
SOC SC 102	History of Western Culture		5	
SOC SC 201	Psychological Basis for Human Behavior			5
POL SC 200	Government	5		
HUM 132[2]	Introduction to Humanities	5		
PHYS SC 203	Physical Science		5	
HIST 300[3]	History of the U.S. and Georgia			5
		16	16	15
	JUNIOR YEAR			
MUS 300	Band-Choral Society-Men's Glee Club			
MUS 301-302-303	Advanced Instruments/Voice	1	1	1
MUS 304-305-306	Applied Major Area	1	1	1
MUS 307	Orchestration & Instrumentation	3		
MUS 311	Theory III(Form & Analysis)			3
MUS 314-315	History & Literature of Music	3	3	
MUS ED 308	High School Music			3
HUM 141-142-143	Elementary French	5	5	5
P ED 211-212	Seasonal Activities	1	1	
EDN 216	Introduction to Teaching	5		
EDN 317	Human Growth & Learning		8	
EDN 307	Health Education and Media			6
		19	19	19

[1]Music 100-200-300-400 - Band, Choral Society, or Men's Glee Club may be taken on an elective basis up to a maximum of five quarter hours by majors and non-majors. Participation by majors, however, is required (with or without credit) as long as they are enrolled in the program unless they have been excused for medical or other reasons.

[2]Humanities 132 is substituted in Area I of the Core Curriculum for Humanities 131 and 207-8-9.

[3]If the student has satisfied the history requirement through examination, he should take an elective.

SENIOR YEAR

Course & No.	*Descriptive Title*	*Quarter Hours Credit* Fall	Winter	Spring
MUS 400	Band-Choral Society-Men's Glee Club			
MUS 401	Senior Instruments/Voice	1		
MUS 404	Applied Major Area	1		
MUS 407-408	Conducting(Instrumental/Choral)	3	3	
MUS 411	Theory IV(Counterpoint & Composition)	3		
MUS ED 301	Public School Music (Elementary Grades)	3		
MUS ED 412	Seminar in Music Education		3	
P ED 213	Seasonal Activities	1		
ED 429	Curriculum and Teaching		8	
ED 430	Student Teaching			15
		12	14	15
	Total quarter hours required for graduation			195

A Minor In Music

Course No.	*Descriptive Title*	*Quarter Hours*
MUS 101-102-103	Fundamentals of Instruments/Voice	3
MUS 111-112-113	Theory I (Ear-training & Sight-Singing)	9
MUS 201-202-203	Intermediate Instruments/Voice	3
MUS 211-212-213	Theory II (Harmony)	9
		24

DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

RAYMOND W. HOPSON, *Head*

Geraldine Abernathy
Frank Ellis, Jr.
Albert E. Frazier
Altomease Magwood
Ella W. Fisher
John H. Myles
Hattie B. Rivers
Richard K. Washington

The essential aim of the Department of Health, Physical Education, and Recreation is to provide professional training for pre-service and in-service teachers of health, physical education, and recreation in the elementary and secondary schools. The department encourages only potentially qualified students to undertake professional training in this field. It seeks also to provide instruction for all students in the basic principles of health and recreational activity needed for wholesome living.

In pursuance of the foregoing aims this department provides a fourfold program of instruction. For students who plan to become professional workers in the field of health, physical education, and recreation—either in schools or in other agencies—the department offers a sequence of specialized training leading to the degree of **Bachelor of Science in Education, with a concentration in health,** physical education, and recreation. In addition, it provides basic training in supervision of one or more phases of a comprehensive health, physical education, and recreation program in the schools of Georgia for all students enrolled in teacher education curricula at Savannah State College. This phase of the work is provided either in selected specialized courses or in a minor sequence.

The department provides instruction in the fundamental concepts and activities of health, physical education, and recreation as an essential phase of general education for all students enrolled at the college. It serves the college community through instruction and **leadership in the intramural program. The intramural program is, in effect, a laboratory in which students enjoy practicing the skills learned in general service courses and compete with their peers.**

PHYSICAL EDUCATION REQUIREMENT FOR ALL FRESHMEN AND SOPHOMORES

During the freshman and sophomore years all students are required to participate in health and physical education activities. The satisfactory completion of this work is a prerequisite for graduation. Within the six quarters of work, one quarter is devoted to swimming;

and five are seasonal activities, including indoor and outdoor games, gymnastics, etc.

All students must wear the regulation uniform at each class meeting, or credit will not be given.

HEALTH, PHYSICAL EDUCATION, AND RECREATION CURRICULUM

FRESHMAN YEAR

Course & No.	*Descriptive Title*	*Quarter Hours Credit* Fall	Winter	Spring
ED 100	Freshman Lectures	(R)		
HUM 107-108-109	English Communicative Skills	5	5	5
HUM 131	Introduction to Music and Art	5		
MATH 107	College Algebra & Trigonometry	5		
P ED 111, 113	Seasonal Activities	1	1	
SOC SC 101-102	History of Western Culture		5	5
SOC SC 111	World and Human Geography		5	
SOC SC 201	Psychological Basis for Human Behavior			5
		16	16	15

SOPHOMORE YEAR

BIO 123	General Biology		5	
CHEM 101-102	General Inorganic Chemistry	5	5	
ED 216	Introduction to Teaching			5
H ED 300	First Aid and Safety	5		
HUM 207-208-209	World Literature	3	3	3
P ED 211-212-213	Seasonal Activities	1	1	1
P ED 233	Elementary Mass Activity	3		
P ED 235	Introduction to Health, Physical Education, and Recreation		5	
PHIL 300 or 301 or 302	Introduction, Logic or Ethics			5
POL SC 200	Government			5
		17	19	19

JUNIOR YEAR

ED 317	Human Growth and Learning		8	
ED 429	Curriculum and Teaching			8
H ED 307	Health Education and Media		6	
P ED 301	Physiology of Muscular Activity			5
P ED 302	Social and Square Dancing			2
P ED 304	Applied Anatomy	5		
P ED 305	Corrective Physical Education		3	
P ED 310	Compendium in Physical Education	1		
P ED 316	Intramural and Recreational Activities	5		
P ED 450	Legal Aspects of Physical Education and Athletics	5		
		16	17	15

[1]If the student has satisfied the history requirement through examination, he should take an elective.

SENIOR YEAR

Course & No.	*Descriptive Title*	*Quarter Hours Credit* Fall	Winter	Spring
ED 430	Student Teaching			15
HIST 300[1]	History of the U.S. & Ga.	5		
P ED 317	Community Play, Recreation and Camp Counselling		5	
P ED 403	Tests and Measurements in Physical Education		5	
P ED 410-411	Coaching and Officiating I-II	3	3	
P ED 415	Organization and Administration of Health, Physical Education, and Recreation	5		
Electives		2	1	1
		15	14	16
	Total quarter hours required for graduation			195

MINOR IN HEALTH, PHYSICAL EDUCATION AND RECREATION

Course & No.	*Descriptive Title*	*Quarter Hours*
H ED 307	Health Education and Media	6
P ED 233	Elementary Mass Activity	3
P ED 235	Introduction to Health, Physical Education, and Recreation	5
P ED 301	Physiology of Muscular Activity	5
P ED 316	Intramural and Recreational Activities	5
P ED 415	Organization and Administration of Health, Physical Education, and Recreation	5
P ED 450	Legal Aspects of Physical Education and Athletics	5
	Total	34

DESCRIPTION OF COURSES

EDUCATION

100. FRESHMAN LECTURES. Required of all freshmen and transfer students; designed to facilitate the adjustment of students to college life, develop desirable personal and social traits, and explore existing occupational opportunities. *One class hour a week. Fall, Winter, and Spring. No Credit.*

216. INTRODUCTION TO TEACHING. Historical development of education; opportunities, social significance and ethics of the profession. The student surveys the many facets of the teacher's work and receives assistance in determining his potential for teaching. *Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.*

307. HEALTH EDUCATION AND MEDIA. A conceptual approach to health education which enables prospective elementary and secondary teachers to develop skill in identifying and in coping with relevant school and community health programs. Community resources for enriching the curriculum are utilized. Exploration and use of all types of educational technology with emphasis on media which facilitate learning and enhance the school curriculum. *Seven class hours a week. Fall, Winter, Spring. Credit, six quarter hours.*

317. HUMAN GROWTH AND LEARNING. Study of the total growth and development of the individual. Biological, social, and psychological aspects of learning; personality adjustment and mental hygiene. Principles, conditions, skills conducive to effective learning in the several subject fields. Work with children in public and private schools and in community agencies. *Prerequisites: Ed. 216 and admission to teacher education. Four class hours and two four-hour periods devoted to laboratory experiences, including observation participation. Fall, Winter, and Spring. Credit, eight quarter hours. Staff.*

323. CHILDREN'S LITERATURE. A study of children's books and selections from books. Designed to assist future teachers in the selection of the best that has been written in the realm of children's literature for each period of the child's life. *Five class hours a week. Summer. Credit, five quarter hours.*

341. SEMINAR IN THE ELEMENTARY SCHOOL CURRICULUM. Designed to meet students' needs in the teaching of the language arts, including literature, social studies, mathematics, and science; underlying philosophy and interrelationships of the areas; laboratory activities, including observation of and work with elementary pupils; selection and use of literature for children. Registration in additional courses only upon approval of adviser. *Prerequisites: Ed. 216 and 317. Twenty class hours a week. Fall, Winter, and Spring. Credit, fifteen quarter hours.*

347. AUDIO-VISUAL MATERIALS AND METHODS. Workshop experiences in the utilization, evaluation, and preparation of various kinds of audio-visual media. The place of audio-visual aids in the learning process. *Five class hours a week and laboratory. Credit, five quarter hours.*

348. SEMINAR IN THE TEACHING OF FOREIGN LANGUAGES. Discussion of various methods of teaching foreign languages with special emphasis on the audio-lingual method, discussion of problems involved in the teaching of foreign languages, and teaching demonstrations by the students. *Prerequisite: junior or senior standing. Two class hours a week. Credit, none.*

429. CURRICULUM AND TEACHING. Through readings, class discussions, and in selected elementary and secondary schools, students will consider: (1) the function and place of the school in our society; (2) curricular concepts and their psychological and philosophical foundations; (3) types of curricular organizations; (4) methods of organizing and presenting of learning materials; (5) school observation-participation, demonstration in subject fields, microteaching. *Prerequisites: Education 216 and 317. Four class hours and two four-hour periods weekly in laboratory participation. Fall, Winter, and Spring. Credit, eight quarter hours. Staff.*

430. STUDENT TEACHING. A cooperative venture between the college and public school systems to provide supervised classroom experience for elementary and secondary student teachers. Pre-field and post-field seminars for orientation and evaluation while the remainder of the quarter is devoted to observation—participation, teaching and total professional involvement proportionate with student readiness. Major field and total group seminars held at planned intervals during quarter for student teachers to explore problem areas and to receive assistance. *Prerequisites: Education 216, 317, 429, 305, completion of English requirements and major field subjects. Fall, Winter, and Spring. Credit, fifteen quarter hours.*

CAREER OPPORTUNITIES PROGRAM

115. INTRODUCTION TO SCHOOLS-THE HUMAN ASPECT. Human structure of the school system. Roles and responsibilities of personnel, ethics, general classroom atmosphere and its relationship to learning. Under the premise that all behavior is caused, student is guided through a study of basic types and developmental characteristics of normal human behavior. Through observation and follow-up in the classroom student receives assistance in recognizing and alleviating types of deviant childhood behavior. Development of skills related to teaching including record keeping, media, educational games and story telling. Designed for beginning paraprofessionals who are working in schools although beneficial as a general introductory course. *Five class hours a week. Credit, five quarter hours. (Substitute credit for Education 216 for paraprofessionals or elective credit.)*

115B or 317B or 429B. LABORATORY. Classroom follow-up of paraprofessionals by College supervisors. Cooperatively planned by College staff, public school personnel, and paraprofessionals. *Credit, one to three quarter hours usually integrated with professional campus courses.*

232. GAMES AND ACTIVITIES FOR ELEMENTARY TEACHERS. Varied experiences to acquaint prospective teachers with appropriate games and selected activities in arts and crafts for elementary-age learners. Especially planned for paraprofessionals, though open to others. May be substituted for P. Ed. 233. Afternoon scheduling. *Credit, three quarter hours.*

ELECTIVES

342. THE READING PROCESS. Designed to extend understandings about reading as a developmental, functional, and recreational process. Emphasis on experimental approaches, trends, issues, media, research. Laboratory. *Credit, five quarter hours. Elective.*

411. REMEDIATION IN THE TOOL SUBJECTS. Emphasis on means (1) of determining performance levels and needs of pupils in reading and mathematics skills and (2) of providing corrective assistance for identified problems. Laboratory. *Credit, five quarter hours. Elective.*

415. IMPROVING SPEECH. A survey of human speech development, deviation, underlying causes, and resultant handicaps. Studying standards for efficiency in oral communication with opportunities for self help in upgrading personal performances. An opportunity for future teachers to examine methods for the improvement of language and speech in the classroom. Open to all students. Especially teaching majors. *Credit, five quarter hours.*

IN-SERVICE SEQUENCE

428. CURRICULUM. Historical evaluation of American school curriculum. Principles of curriculum development, evaluation of curriculum practices in elementary and secondary schools. Enrollment limited to post-baccalaureate students and in-service teachers. *Summer. Credit, five quarter hours.*

438. THE TEACHING PROCESS IN ELEMENTARY SCHOOL. Principles underlying teaching practices. Students grouped according to major interest for exploring methods of organizing and presenting learning materials. Laboratory including demonstration and micro-teaching. Enrollment limited to post-baccalaureate students and in-service teachers. *Summer. Credit, five quarter hours.*

439. THE TEACHING PROCESS IN SECONDARY SCHOOL. Principles underlying teaching practices. Students grouped according to major interest and teaching levels for exploring methods of organizing and presenting learning materials. Laboratory including demonstration and micro-teaching. Enrollment limited to post-baccalaureate students and in-service teachers. *Summer. Credit, five quarter hours.*

461. WORKSHOP FOR ELEMENTARY TEACHERS. Laboratory experience simulating student teaching at the elementary level. Open only to in-service teachers holding, under usual circumstances, the baccalaureate degree. Work with children. *Summer. Credit, ten quarter hours.*

462. WORKSHOP FOR SECONDARY TEACHERS. Laboratory experience simulating student teaching at the secondary level. Open only to in-service teachers holding, under usual circumstances, the baccalaureate degree. Work with children. *Summer. Credit, ten quarter hours.*

LIBRARY EDUCATION

301. SCHOOL LIBRARY ADMINISTRATION AND ORGANIZATION. Methods of developing a strong functioning library as an integral part of the school; routines involved in administration, acquisition, circulation and care of materials; planning the library or media center, public relations and personnel. *Five class hours a week. Credit, five quarter hours.*

302. CATALOGING AND CLASSIFICATION. Designed to provide an introduction to classification and cataloging for modern school libraries; includes the fundamentals of cataloging, classification according to the Dewey Decimal System, the use of subject headings and the principles underlying the selection of books and non-print materials. *Five class hours a week. Credit, five quarter hours.*

401. SCHOOL LIBRARY MATERIALS. The selection and use of books and non-print materials for school libraries. The study of basic aids in selection, book reviewing and annotation, with special attention to the use of books and materials in correlation with the curriculum. *Five class hours a week. Credit, five quarter hours.*

402. BASIC REFERENCE SOURCES. Basic reference tools for the school library and problems in their use of such tools as encyclopedias, dictionaries, atlases, bibliographies, representative handbooks, and non-print media. *Five class hours a week. Credit, five quarter hours.*

HEALTH EDUCATION

235. PERSONAL AND COMMUNITY HYGIENE. Scientific health facts pertaining to the individual and the community that will enable one to live successfully with himself and others. Prevention and control of communicable diseases. Hygienic factors of the home, school, and community. *Five class hours a week. Credit, five quarter hours.*

300. FIRST AID AND SAFETY. A combined course of materials and methods of first aid; the philosophy of safety education; care and prevention of injuries; integration of safety with other subjects and activities. Practice in the application of first aid methods. *Five class hours a week. Credit, five quarter hours.*

PHYSICAL EDUCATION AND RECREATION

111 (W). FUNDAMENTALS OF VOLLEYBALL, TOUCH FOOTBALL, AND GAMES OF LOW ORGANIZATION; TUMBLING AND APPARATUS. *Two class hours a week. Credit, one quarter hour.*

113 (W&M). SEASONAL ACTIVITIES. *Two class hours a week. Credit, one quarter hour.*

211 (W). TEAM ACTIVITY IN VOLLEYBALL, TOUCH FOOTBALL, SHUFFLEBOARD. *Two class hours a week. Credit, one quarter hour.*

212 (W). BASKETBALL, SOCCER, RHYTHMICAL ACTIVITIES. *Two class hours a week. Credit, one quarter hour.*

111 (M). FUNDAMENTALS OF FOOTBALL, VOLLEYBALL, TUMBLING AND APPARATUS. *Two class hours a week. Credit, one quarter hour.*

211 (M). ARCHERY, VOLLEYBALL, TUMBLING. *Two class hours a week. Credit, one quarter hour.*

212 (M). BASKETBALL, SOCCER. *Two class hours a week. Credit, one quarter hour.*

213 (M). ARCHERY, TENNIS. *Two class hours a week. Credit, one quarter hour.*

233. ELEMENTARY MASS ACTIVITY. Explanation and grouping of simple games, stunts, self-testing activities, and rhythms that fit the needs of the elementary school child. *Three class hours a week. Credit, three quarter hours.*

235. INTRODUCTION TO HEALTH, PHYSICAL EDUCATION AND RECREATION. Orientation to careers and the personal and professional qualifications needed by students planning to enter the field. Philosophy and principles underlying the best modern practices in education; practical suggestions and intensive study to provide a functional understanding of health, physical education, and recreation programs. *Five class hours a week. Credit, five quarter hours.*

301. PHYSIOLOGY OF MUSCULAR ACTIVITY. A comprehensive study of the systems of the body as they are affected by activity. *Prerequisite: basic knowledge of biology and anatomy. Five class hours a week. Credit, five quarter hours.*

302. SOCIAL AND SQUARE DANCING. *Two class hours a week. Credit, two quarter hours.*

304. APPLIED ANATOMY. Essentials of anatomy and physiology; study of structure as essential to understanding of function; importance of the muscular system and joints; the erect and moving metabolism of the body; pathological conditions in every-day life. *Five class hours a week. Credit, five quarter hours.*

305. CORRECTIVE PHYSICAL EDUCATION. A comprehensive view of the significance of exercise in the educative process and in treatment of abnormal or diseased conditions. *Three class hours a week. Credit, three quarter hours.*

310. COMPENDIUM IN PHYSICAL EDUCATION. (Majors and minors only.) Sports, games, and activities are presented to the students in an atmosphere which will allow for maximum instruction and guidance. Equipment and facilities are available so that individual instruction is available. *One class hour a week. Credit, one quarter hour.*

316. INTRAMURAL AND RECREATIONAL ACTIVITIES. Problems peculiar to intramurals organization, motivation, desirable activities, schedules, reports, and awards. *Five class hours a week. Credit, five quarter hours.*

317. COMMUNITY PLAY, RECREATION AND CAMP COUNSELING. An historical background of the present play movement; the theoretical explanation of play; the need for play in modern life; its place in education; the administration and organization of play; camp counseling. *Five class hours a week. Credit, five quarter hours.*

321. BEGINNER'S SWIMMING. To equip the individual with basic water safety skills and knowledge in order to make him reasonably safe while in, on, or about the water. *Two class hours a week. Credit, one quarter hour.*

322. ADVANCED BEGINNER'S SWIMMING. To increase the watermanship of the individual by adding to the skills learned in Beginner's Swimming; To afford the student with an opportunity to experience continued success in a reasonable period of time and thus motivate him to continue his water safety training; To prepare the student for additional water safety training by introducing him to a series of skills designed to improve his stamina and basic coordination. *Two class hours a week. Credit, one quarter hour.*

323. INTERMEDIATE SWIMMING. To provide the student with the opportunity to learn the elements of good swimming. *Two class hours a week. Credit, one quarter hour.*

403. TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION. Testing and measuring the student's work, the literature of the field, presentation of results in clear and usable form. *Five class hours a week. Credit, five quarter hours.*

410-411. COACHING AND OFFICIATING I AND II. Theory and psychology of coaching and officiating sports and games in schools and colleges. Comparison of the various methods of coaching and practical application of techniques of officiating. *Three class hours a week, two quarters. Credit, three quarter hours each quarter.*

415. ORGANIZATION AND ADMINISTRATION OF HEALTH, PHYSICAL EDUCATION, AND RECREATION. The basic principles in organizing programs; state and legal aspects; medical problems; maintenance of athletic equipment; motivating interest by publicity programs; budgeting and financing the work; equipping and managing the office. *Five class hours a week. Credit, five quarter hours.*

420. MECHANICAL ANALYSIS. A study of forces in muscles, bones and joints, as related to externally applied loads. Muscle testing against externally applied forces of varying degrees of magnitude. Analysis of positions and the arrangement of bodily alignment. *Five quarter hours a week. Credit, five quarter hours.*

430. PROGRAMMING AND IMPLEMENTATION IN PHYSICAL EDUCATION. Selection, interpretation, arrangement, and execution of activities for maximum experiences in the modern physical education programs. Special emphasis is placed on the survey and evaluation of materials and the application of effective arrangements and procedures. *Five class hours a week. Credit, five quarter hours.*

440. NEW DIMENSIONS AND DYNAMICS IN HEALTH PRACTICES. The purpose of this course is to identify the facts, principles and concepts of the behavioral and natural sciences that pertain to helpful living. *Five class hours a week. Credit, five quarter hours.*

450. LEGAL ASPECTS OF PHYSICAL EDUCATION AND ATHLETICS. Individual and group responsibility for particular activities with legal restrictions associated with such activities. Statutes versus court judgement. Legal precedents and litigations. Tenets of immunity, variations in interpretation and court actions. *Five class hours a week. Credit, five quarter hours.*

DIVISION OF HUMANITIES

HOWARD M. JASON, *Chairman*

PHILOSOPHY AND PURPOSES

The humanities embrace those skills, understandings, and appreciations which make for a well-rounded life. The humanities are concerned with humane values, exalting the life of man. Thus, the impact of mind upon mind—great minds of the past upon sensitive minds of the present—constantly points the way to the good life.

Specifically, the Division of Humanities provides opportunity for study and analyses of the language, literature, art, and music of the world. The study and analyses are aimed at motivating the student to expand his aesthetic horizon, to enliven his spirit of inventiveness and individuality, and to acquire a finer appreciation and understanding of the human spirit.

This division comprises the Department of English, the Department of Fine Arts, and the Department of Modern Languages.

DEPARTMENT OF ENGLISH

LUETTA C. MILLEDGE, *Acting Head*

Julia H. Bennett
Arthur L. Brentson
Norman Elmore, Jr.
Marceline Erickson
J. Randolph Fisher
Paula Sue Hayes
*Robert Holt
Wilda G. Johnson
*Abbie W. Jordan
Sister Mary Julie Maggioni
Michael Kevin Maher
Yvonne H. Mathis
Willie G. McLemore
Lucretia P. Morgan
Louise L. Owens
Lalit K. Sethi
William A. Stephenson
Robert L. Stevenson
Alma Stone Williams

The ultimate aim of the Department of English is to develop in the student a quality of mind marked by constructive, imaginative inquiry and creative thinking. The Department aims to help the student develop these aspects of his personality and intelligence: (1) oral and written language proficiency, including an awareness of

*On leave

linguistic plurality; (2) critical knowledge and consequent appreciation of the literary arts in their various modes, including the written, the oral, and the cinematic; (3) affective, aesthetic, and intellectual flexibility and perceptiveness; and (4) humane spirit and values.

The student who has successfully pursued English as his major area of study should be able to distinguish between genuinely great literature and that which is less than great. He should have a critical acquaintance with a representative number of masterpieces in American, English, and world literature; he should be aware of the seminal ideas, concepts, and archetypes informing these works; and he should have some facility in applying the major critical approaches to literature. The English major is expected to demonstrate facility and taste in expression, to have a satisfactory knowledge of the history and nature of the English language, and to be cognizant of dialectal variety in American English. In addition to the proficiencies already listed, the English Education major should have knowledge of the major methods of teaching the language arts and skills, including an awareness of the most recent approaches to teaching rhetoric and composition and a knowledge of modern trends in teaching literature and language.

PLAN OF STUDY

All freshman students are given a placement test in English. They are then grouped on the basis of achievement on the test. Superior students may be permitted to register in Humanities 108. Others are assigned to appropriate sections of Humanities 106 or 107.

THE ENGLISH MAJOR

A non-teaching major in English must include two period courses (301, 303, 305, or 306); *one* course in American literature (220 or 221); *one* genre course (403, 405, or 406); *one* course in world literature (331 or 332); *one* course in English literature (210 or 211), *three* seminars in English and *one* course in linguistics.

A student majoring in English language and literature will complete at least fifty-four quarter hours in language, composition, literature, and speech, in addition to freshman English.

An English major who expects to teach English must take *one* period course, *one* course in American literature, *one* course in English literature, *one* course in linguistics, *one* genre course, *one* course in world literature for majors, and *two* seminars in English, and *two* electives in English, in addition to freshman English, advanced composition and speech.

THE ENGLISH MINOR

A minor in English consists of thirty hours *beyond* Humanities 107, 108, and 109. It must include *one* course in American literature, *one* course in English literature, *one* genre course, and *one* seminar in English.

CURRICULUM FOR MAJORS IN ENGLISH LANGUAGE AND LITERATURE

FRESHMAN YEAR

Descriptive Title	*Course & No.*	*Quarter Hours Credit* Fall	Winter	Spring
BIO 123-124	General Biology	5	5	
ED 100	Freshman Lectures	(R)		
HUM 107-108-109	English Communicative Skills	5	5	5
HUM 131	Introduction to Art and Music	5		
MATH 107	College Algebra & Trigonometry			5
P ED 111, 113	Seasonal Activities	1		1
SOC SC 101-102	History of Western Culture		5	5
		16	15	16

SOPHOMORE YEAR

ENG 204	Advanced Composition			5
HUM 207-208-209	World Literature	3	3	3
HUM 141-142-143	Elementary French			
or				
HUM 151-152-153	Elementary German			
or				
HUM 161-162-163	Elementary Spanish	5	5	5
NAT SC 203	Physical Science			5
P ED 211-212-213	Seasonal Activities	1	1	1
SOC SC 111	World and Human Geography	5		
SOC SC 201	Psychological Basis for Human Behavior		5	
		14	14	19

JUNIOR YEAR

ENG 301	English Literature of 17th Century			
or	or			
ENG 303	English Romantic Movement			
or	or			
ENG 305	Victorian Prose and Poetry			5
ENG 306	Contemporary Prose and Poetry			5
ENG 320	Introduction to the English Language			5
ENG 210 or 211	Survey of Eng. Lit.		5	
HIST 300[1]	History of the U.S. & Ga.	5		
POL SC 200	Government	5		
ENG 450	Seminar in English	1		
ENG 220 or 221	Survey of Am. Lit.		5	
Minor		5	5	
Elective	(Genre Course)		3	5
		16	18	20

[1]If the student has satisfied the history requirement through examination, he should take an elective.

SENIOR YEAR

Descriptive Title	*Course & No.*	*Quarter Hours Credit* Fall	Winter	Spring
ENG 401	Shakespeare			5
ENG 413	Advanced Speech	5		
ENG 451-452	Seminar in English		1	1
PHIL 300 or 301 or 302	Introduction, Logic or Ethics	5		
ENG	Elective			5
Minor		5	5	5
Electives			10	
		15	16	16

Total quarter hours required for graduation 195

COMPREHENSIVE EXAMINATION FOR ENGLISH MAJORS

Senior English language and literature majors are required to take the Graduate Record Examination (Area and Aptitude tests) as the comprehensive examination in their field.

Senior English Education majors are required to take the National Teachers Examination as the comprehensive examination in their field.

MINOR OPTIONS IN COMMUNICATIONS

Option I: Minor In Journalism

JUNIOR YEAR

COM 351. The Mass Media and Culture
COM 361. Introduction to Journalistic Writing (formerly English 410)
COM 362. Principles of Journalistic Writing (formerly Eng. 431)

SENIOR YEAR

COM 451. Language and Persuasion
COM 461. The Non-Fiction Feature (Eng. 432)
COM 481. Communications Operation and Programming
COM 491. Media Internship (Optional)

Option II: Minor In Electronic Media

JUNIOR YEAR

COM 351. The Mass Media and Culture
COM 352. Electronic Media
COM 363. Electronic Journalism

SENIOR YEAR

COM 451. Language and Persuasion
COM 471. Speech for Radio and Television I
COM 481. Communications Operation and Programming
COM 491. Media Internship (Optional)

COURSE DESCRIPTIONS

HUMANITIES

106. ENGLISH COMMUNICATIVE SKILLS. Designed for freshmen whose grade equivalent is below 11.0 on the placement tests. Students whose performance is of a superior nature can qualify for enrollment in English Communicative Skills 108 after completing the requirements of this course. A minimum passing grade of "C" is required in this course. *Five class hours a week and additional laboratory experiences. Fall, Winter, and Spring. Credit, five quarter hours.*

107-108-109. ENGLISH COMMUNICATIVE SKILLS. (To be taken in sequence.) Designed to develop competence in: (1) reading, writing, speaking, listening, and demonstrating; (2) creative, critical thinking; precision of thought and expression through oral and written reports. A minimum passing grade of C is required in each course. *Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours each.*

131. INTRODUCTION TO MUSIC AND ART. Designed to integrate experiences in music and art. Various media are used to develop an understanding of musical contributions to daily living and to provide enriching experiences in art. *Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.*

141-142-143. ELEMENTARY FRENCH. Intended for students who have not studied the language previously. Intensive practice in hearing, speaking, reading, and writing simple, everyday French. The courses are to be taken in sequence. *Four class hours and two one-hour laboratory periods a week. Fall, Winter, and Spring. Credit, five quarter hours each quarter.*

151-152-153. ELEMENTARY GERMAN. (Formerly 221-222-223.) For students who have not studied the language previously. Intensive practice in hearing, speaking, reading, and writing simple everyday German. The courses are taken in sequence. *Four class hours and two one-hour laboratory periods a week. Fall, Winter, and Spring. Credit, five quarter hours each quarter.*

161-162-163. ELEMENTARY SPANISH. These courses are intended for students who have not studied the language previously. The work provides intensive practice in hearing, speaking, reading and writing simple, everyday

Spanish. The courses are to be taken in sequence. *Four class hours and two one-hour laboratory periods a week. Fall, Winter, and Spring. Credit, five quarter hours each quarter.*

207-208-209. WORLD LITERATURE. (To be taken in sequence.) An interpretation and appreciation, introducing the student to some of the major writers of the world and to the principal literary genres. Required of all students. Prerequisites: Humanities 107-108-109. *Three one-hour discussion periods a week. Credit, three quarter hours each.*

*ENGLISH

204. ADVANCED COMPOSITION. Intensive study of the theory and practice of writing the basic composition forms; exposition, narration, description, and argumentation; interpretative writing based on the inductive study of literary models; investigational writing or research involving methods of presenting data, and other written work of a documentary nature. *Prerequisites: Humanities 107, 108, 109. Five class hours a week. Spring. Credit, five quarter hours.*

207. TECHNIQUES OF COMPOSITION. Designed for prospective teachers of English. Emphasis upon content, logic and organization in connected discourse; development of skill in various types of writing; ability to analyze pieces of writing for strengths and weaknesses, and to make valid suggestions for improvement; relating of these matters to methods of teaching. *Five class hours a week. Credit, five quarter hours.*

210. INTRODUCTION TO ENGLISH LITERATURE. A survey of English writing from Beowulf to the Romantic Period. *Prerequisites: Humanities 107, 108, 109. Five class hours a week. Credit, five quarter hours.*

211. INTRODUCTION TO ENGLISH LITERATURE. A survey of English writing from the Romantic Period to the Contemporary Period. *Prerequisites: Humanities 107, 108, 109. Five class hours a week. Credit, five quarter hours.*

*Unless otherwise indicated, satisfactory completion of the freshman humanities sequence (Humanities 107-108-109) is the prerequisite for enrollment in any course numbered 200 or above.

Unless otherwise indicated, satisfactory completion of the sophomore humanities sequence (Humanities 207-208-209) or Humanities 132-133-134 is the prerequisite for enrollment in any course numbered 300 or above.

220. AMERICAN LITERATURE FROM THE COLONIAL PERIOD to 1865. A study of the main currents of thought and expression in America. Prerequisites: Humanities 107, 108, 109. *Five class hours a week. Credit, five quarter hours.*

221. AMERICAN LITERATURE SINCE 1865. A study of the main currents in literary thought and expression in America from 1865 to the present. *Prerequisites: Humanities 107, 108, 109. Credit, five quarter hours.*

301. ENGLISH LITERATURE OF THE SEVENTEENTH CENTURY. A survey of the important writers—their styles, subject-matter and philosophies. Special emphasis upon the works of Milton, Dryden, and Bacon. *Prerequisite: English 210 or 211, 204. Five class hours a week. Credit, five quarter hours.*

303. THE ENGLISH ROMANTIC MOVEMENT. The genesis of the Romantic theory and the beginning of the Romantic revolt in England; significant literary aspects of the Movement as shown in the works of Wordsworth, Coleridge, Byron, Shelley, and Keats; in the prose writing of Hazlitt, DeQuincey, Hunt, Lamb and Scott. *Prerequisite: English 210 or 211, 204. Five class hours a week. Credit, five quarter hours.*

305. VICTORIAN PROSE AND POETRY. An analytical study of the age of Queen Victoria of England; literature of the period as represented by the works of Tennyson, the Brownings, Carlyle, Arnold, Ruskin, and Meredith. *Prerequisite: English 210 or 211, 204. Five class hours a week. Credit, five quarter hours.*

306. CONTEMPORARY PROSE AND POETRY. A survey of new personalities and their literary contributions in the fields of prose and poetry. *Prerequisites: English 210 or 211, 220 or 221, 204. Five class hours a week. Credit, five quarter hours.*

315. WEST AFRICAN LITERATURE. A survey of the total literary accomplishments of the West African from folk literature to modern times. Emphasis upon poetry, with particular inquiry into its effect upon the writings of Afro-Americans. *Credit, three quarter hours.*

316. THE POETRY OF THE BLACK AMERICAN. An intensive study of the poetic contribution of Black Americans from Lucy Terry to Don Lee, with an examination of social and other forces which have contributed to its development. *Credit, three quarter hours.*

317. THE PROSE OF THE BLACK AMERICAN. A study of the literary, social, and historical aspects of the essays, fiction, and drama created by the Black American, from William Wells Brown to Eldridge Cleaver. *Credit, three quarter hours.*

320. INTRODUCTION TO THE ENGLISH LANGUAGE. The nature of language, the structure of modern English, descriptive grammars, and history of the English language with extensive treatment of the development of English in America. *Prerequisites: Humanities 107, 108, 109. Five class hours a week. Credit, five quarter hours.*

331. LITERARY ANALYSIS AND CRITICISM: World masterpieces. For English majors. A study of masterpieces other than English and American. *Three class hours a week. Credit, three quarter hours.*

332. LITERARY ANALYSIS AND CRITICISM: World masterpieces. Continuation of 331. *Spring, alternate years. Three class hours per week. Credit, three quarter hours.*

401. SHAKESPEARE. Background, home life, and parentage of Shakespeare; Elizabethan theatrical traditions and conventions. Opportunity for oral reading and critical discussion of the great tragedies, comedies, and historical plays of the author. Consent of instructor. *Five class hours a week. Credit, five quarter hours.*

403. CRITICISM: Modern Poetry. Analysis and criticism of recent English and American poetry. Emphasis on the changing ideas of poetry in relation to persistent, as well as new, forms and techniques. *Prerequisites: English 210 or 211 and 331 or 332. Three class hours per week. Credit, three quarter hours.*

405. THE ENGLISH NOVEL. An evaluative study of works of great English novelists. Rise and development of the English novel, together with an analytical appraisal of the four elements—setting, character, plot, and philosophy. Readings and discussion of various types, with emphasis upon the variety of methods by which the novel interprets life. Consent of the instructor. *Five class hours a week. Credit, five quarter hours.*

406. INTRODUCTION TO DRAMA. Chronological study of drama, with emphasis on selected writers and their works. *No prerequisites. Five class hours a week. Credit, five quarter hours.*

411. PLAY PRODUCTION. A critical study of the types of plays with general principles of directing for each type, editing the script; the fundamentals of casting, lighting, make-up, etc. *Prerequisite: English 204. Five class hours a week. Credit, five quarter hours.*

413. ADVANCED SPEECH. Designed to supplement speech instruction given in Humanities 107, 108, 109. Emphasizes self-improvement in all phases of diction and provides experiences in various speaking situations. Designed primarily for teaching majors but can be used by any student. Consent of instructor. *Credit, five quarter hours.*

415. THE RHETORIC OF THE BLACK AMERICAN. A textual and critical study of Afro-American speakers and movements from the 18th century to the present; an appraisal of the significant rhetoric of such speakers as Frederick Douglass, Marcus Garvey, Malcolm X, and Martin Luther King. *Credit, three quarter hours.*

416. THE BLACK THEATER. An examination of the contribution of the Black man to American drama. Traces the development of Black theater from minstrelsy to modern theater workshops (To be offered in alternate years.) *Credit, three quarter hours.*

417. THE NOVEL OF THE BLACK AMERICAN. A critical study of the novel created by the Black man in America from William Wells Brown to William Melvin Kelley, with analysis of the literary aspects and racial themes of these novels. (To be offered in alternate years.) *Credit, three quarter hours.*

440. THE TEACHING OF ENGLISH. Concepts, principles, and practices basic to the teaching of English in the secondary school. Emphasis upon readings, discussion, and observation. *Prerequisite: Senior classification. Three class hours per week. Credit, 3 quarter hours.*

450-451-452. SEMINAR IN ENGLISH. Special problems in English. Reports and research techniques. Prerequisite: junior standing. Three courses required of all majors in either their junior or senior years. *One class hour a week. Fall, Winter, and Spring. Credit, one quarter hour each.*

454. AMERICAN ENGLISH DIALECTS. An analytical study of the major American English vernacular varieties with an emphasis upon Black vernacular English; sociological factors in relation to language learning; and scholastic achievement of the linguistically different. *Prerequisites: English 320 and English 413. Spring quarter. Credit, five quarter hours.*

COMMUNICATIONS

351. THE MASS MEDIA AND CULTURE. An analytical survey of the forms and modes of mass expressive symbolism from cave painting to comic strip and from drum to electronic medium, with emphasis upon semantics and cultural influences. *Fall quarter. Credit, five quarter hours.*

352. ELECTRONIC MEDIA (film, Radio, and Television). An examination of the nature of each medium; audio-visual perception; content analysis; communication theories; critical analysis; types of sponsorship. *Winter quarter. Credit, five quarter hours.*

361. INTRODUCTION TO JOURNALISTIC WRITING. (Formerly English 410.) A survey of newspaper methods, news writing, and reporting. *Prerequisite: English 204. Winter quarter. Credit, five quarter hours.*

362. PRINCIPLES OF JOURNALISTIC WRITING. (Formerly English 431.) Principles and practices of writing for newspapers, magazines, trade papers, house organs, etc. *Prerequisite: Communications 361. Spring quarter. Credit, five quarter hours.*

363. ELECTRONIC JOURNALISM. Principles and practices of newswriting and preparation of commercial copy for radio and television; analysis of auditory and visual elements involved. Emphasis upon news production and editing and copywriting. *Prerequisite: English 204. Winter quarter. Credit, five quarter hours.*

451. LANGUAGE AND PERSUASION. Principles and practices of classical, tribal African, American Indian, 18th Century American, and contemporary Black rhetoric, including the language of politics, religion, and other significant modes. *Fall quarter. Credit, five quarter hours.*

461. THE NON-FICTION FEATURE. (Formerly English 432.) Writing and merchandising of the non-fiction feature for Sunday magazine supplements, newspapers, and magazines. *Winter quarter. Credit, five quarter hours.*

462. THE SCHOOL PRESS. (Formerly English 430.) Emphasis upon college and high school publications with opportunities for professional evaluation and guidance. *Summer quarter. Credit, five quarter hours.*

463. FEATURE WRITING FOR ELECTRONIC MEDIA. Principles and practices of writing feature material for radio and television: documentaries, specials, and interviews, with emphasis upon both standard and creative forms. *Prerequisite: Communications 363. Summer quarter. Credit, five quarter hours.*

471. SPEECH FOR RADIO AND TELEVISION, I. Basic techniques for radio and television broadcasting. Emphasis upon newscasting, advertising, sportscasting, and disc jockey formats. *Prerequisite: English 413. Winter quarter. Credit, five quarter hours.*

472. SPEECH FOR RADIO AND TELEVISION, II. Emphasis upon special programs and audiences: public service features, documentaries, local-talent productions, interviews, panels, etc., in conventional and creative formats. *Prerequisites: Communications 463 and 471, or permission of the instructor. Credit, five quarter hours.*

481. COMMUNICATIONS OPERATION AND PRODUCTION. Seminar. Emphasis upon the study of the operations and the technology involved in production in the various media (behind the scenes in radio stations, recording studios, publishing companies, newspaper companies, etc.). *Spring quarter. Credit, five quarter hours.*

491. MEDIA INTERNSHIP. On-the-job experience in a communications business or related concern for six weeks or 150 clock hours during the summer preceding the student's senior year. Optional. *Credit, five quarter hours.*

DEPARTMENT OF FINE ARTS

COLERIDGE A. BRAITHWAITE, *Head*

William Anderson
Arthur L. Britt
Samuel A. Gill
Clyde E. Howard
Farnese H. Lumpkin
Christine E. Oliver
James Thompson, Jr.

The Department of Fine Arts encourages students to find in the several areas of music and the graphic and plastic arts an appreciation of aesthetic values in general education and opportunities for the development of their special interests and abilities in these fields. In conformance with the stated philosophy of the college, the department stresses specific objectives in the areas of music and art.

GRAPHIC AND PLASTIC ARTS

The courses in graphic and plastic arts are intended to:

(1) Provide students with the skills and experiences necessary for teaching art in elementary and secondary schools;
(2) Prepare students for pure, creative production;
(3) Provide basic preparation for further study in the various professional fields of art;
(4) Provide electives for the total growth of students; and
(5) Enrich the community through art activities such as exhibitions, motion pictures, lectures, and art clubs.

ART EDUCATION

To implement the foregoing objectives, the Department of Fine Arts offers courses leading to the degree of Bachelor of Science in Education, with a concentration in art education. A graduate who has completed the art education program may be recommended to the Division of Teacher Certification for certification as a teacher of art in grades one through twelve. This curriculum is listed under the Division of Education.

THE MUSIC PROGRAM

The courses in music lead to the degree of Bachelor of Science in Education, with a concentration in music education. The program is listed under caption of the Division of Education.

The curriculum prepares students for certification by the State Department of Education as teachers of music in grades one through twelve; and it provides training in individual and group participation. Adequate preparation for choral conductors and band directors is stressed. Functional piano facility is encouraged for all majors.

It is expected that in all phases of the music program students will be aware of their tremendous responsibility to enrich the lives of people in their communities by their talents, skills, and musical initiative. The creative impulse is strongly encouraged. Emphasis is continuously placed upon musical activities which develop the entire personality by making use of all physical and mental resources necessary to performance, whether it be in the instrumental or vocal areas, and in exercising intelligent judgment in the area of musical creativity.

ADMISSION TO THE MAJOR PROGRAM IN MUSIC

It is desirable that all applicants for admission to the major program in music will have had at least two years of previous musical training in the vocal and/or instrumental areas. The Department will determine by aptitude tests and individual auditions the applicant's theoretical knowledge, instrumental and vocal proficiency, and general professional fitness for the program. This information will serve as a guide to the Department in helping the applicant to plan his college work.

All majors in music are expected to participate in a musical organization as long as they are enrolled in the program. All minors are expected to participate for a minimum of two years.

MINOR IN MUSIC

MUS 101-102-103	Fundamentals of Instruments/Voice	3
MUS 111-112-113	Theory I (Ear-training & Sight-Singing)	9
MUS 201-202-203	Intermediate Instruments/Voice	3
MUS 211-212-213	Theory II (Harmony)	9
		24

[1]COURSE DESCRIPTIONS

ART
Graphic and Plastic Arts

103. BASIC ART. An introduction to the core principles and elements of all graphic and plastic design. Problems and discussion evolve around two and three-dimensional design. *One-class hour and four two-hour studio periods a week. Fall. Credit, five quarter hours.*

108. DRAWING. Problems in various media. Emphasis on drawing media such as charcoal, chalk, crayon, pen and ink. Studio problems and field trips. *Prerequisite: Art 103. Four two-hour studio periods a week. Winter, Credit, four quarter hours.*

116. CRAFTS I. Experiences in significant craft materials: wood, fabrics, and metal. Students will experience elementary weaving techniques, fabric printing, jewelry and metal projects, and techniques of wood crafts. *Prerequisites: Art 103, Art 108. Three two-hour studio periods a week. Spring. Credit, three quarter hours.*

217. CRAFTS II. A continuation of Art 116. *Three two-hour studio periods a week. Fall. Credit, three quarter hours.*

238. CERAMICS I. An initial study of ceramic processes such as modeling, stacking, firing, glazing, and decorating ceramic forms. *One class hour, two two-hour periods a week. Winter. Credit, three quarter hours.*

239. CERAMICS II. A continuation of Art 238. Emphasis on design, decorating, and classroom application in the public schools. *Three two-hour studio periods a week. Spring. Credit, three quarter hours.*

250. INTRODUCTION TO WORLD ART. A survey and comparison of contemporary world art of various epochs, with emphasis on the art of Africa and the Orient. Classes will utilize lantern slides, cinema, gallery tours, group discussions, and assigned topics. *Three class hours a week. Spring. Credit, three quarter hours.*

322. PAINTING I. An introduction to painting media and painting techniques including encaustic and gouache. *Five two-hour studio periods a week. Winter. Credit, five quarter hours.*

323. PAINTING II. A continuation of Painting I. Emphasis on advanced techniques, easel and mural designs. *Five two-hour periods a week. Spring. Credit, five quarter hours.*

333. SCULPTURE. A study of three-dimensional forms and the limitations of sculptural media. Experiences include work in clay, wood, stone, metal, and plaster. *Five two-hour studio periods a week. Spring. Credit, five quarter hours.*

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[1]See also course descriptions, "Humanities" under the Department of English.

Applied Art

130. APPLIED ART, PRINCIPLES. Fundamental principles of art and their practical application in the use of color, line, and form. Emphasis is placed upon recognition and appreciation of beauty in the immediate surroundings. *Two class hours and three two-hour laboratory periods a week. Spring Quarter. Credit, five quarter hours.*

232. COSTUME DESIGN. Study of dress with emphasis on line and color in relation to the individual. Problems include figure drawing, planning a personal wardrobe, adapting current and historic modes to individual appearance, creating color ensembles, correcting the figure with designs, and improving poor selection. *Prerequisite: Art 130. Two class hours and three two-hour laboratory periods a week. Fall quarter. Credit, five quarter hours.*

234. ADVANCED DESIGN. Further practice in the application of color in line and form. Creative expression in various types of art media. *Prerequisite: Art 130. One class hour and two two-hour laboratory periods a week. Fall. Credit, three quarter hours.* ELECTIVE.

330. INTERIOR DESIGN. Planning, designing, and decorating single rooms, apartments, and houses to meet personal and family problems involved in present-day aesthetic needs; house plans and arrangements; furnishings and color; treatment of backgrounds. *Two class hours and three two-hour laboratory periods a week. Prerequisite: Art 130. Winter. Credit, five quarter hours.*

340. HISTORY OF COSTUME. The historical, literary, and artistic background of the costumes of various countries from early civilization to the present. *Prerequisites: Art 130, 232, or the equivalent. Five one-hour lecture periods per week. Winter or Spring. Credit, five quarter hours.* ELECTIVE.

346. ADVANCED COSTUME DESIGN. Creative designing for the fashion figure; sources of fashion inspiration; factors in fashion trend and acceptance. *Prerequisites: Art 130 and Art 232. Three two-hour laboratory periods per week and two one-hour lectures. Winter or Spring. Credit, five quarter hours.*

420. CREATIVE CRAFTS-WEAVING. Techniques of weaving on four-harness table and floor looms; creative drafting and pattern weaving; design, color, and texture applied to textile construction; recent trends and developments. *Two class hours and three two-hour laboratory periods a week. Winter or Spring. Credit, five quarter hours.*

Art Education

304. ART EDUCATION. An introduction to art education, philosophy, and practice. Discussion, observation, and studio participation. *One class hour and three two-hour studio periods a week. Fall. Credit, four quarter hours.*

401. PUBLIC SCHOOL ART. Designed to acquaint majors in Elementary Education and Art Education with the techniques and mechanics for developing an elementary art program. Work is given in three-dimensional and two-dimensional forms. *One class hour and four two-hour studio periods a week. Fall, Winter, or Spring. Credit, five quarter hours.*

409. SEMINAR IN ART PROBLEMS. Designed especially for majors who will teach art. Specific problems in Art Education: field trips; discussion of professional qualities; art in the community; interrelationships of various conditions of art. *Prerequisites: Art Ed. 304 and 401. Three class hours a week. Winter. Credit, three quarter hours.*

MUSIC
Applied

100-200-300-400. BAND, CHORAL SOCIETY, or MEN'S GLEE CLUB. These organizations are open for elective credit to all students, but participation by majors in music is required for four years. Majors in elementary education are especially encouraged to enroll. *Fall, Winter, and Spring. Credit, one hour per quarter for three quarters during the freshman year, two quarters during the sophomore year. No academic credit during the junior and senior years without consent of advisor.*

101-102-103. FUNDAMENTALS OF INSTRUMENTS:
Piano: These courses introduce techniques and basic musical knowledge such as notes, rhythms, time signatures, tempo markings, fingering, and phrasing.
Brass, Woodwind, and Percussion: Basic elements for the brass and woodwinds include embouchure control, breath control, time and key signatures, scales, and phrasing. Percussion players are required to perfect single taps and are introduced to basic drum rudiments. *One class hour per week. Fall, Winter, and Spring. Credit, one quarter hour each quarter.*

101-102-103. FUNDAMENTALS OF VOICE: Vocal technique, diction, breathing, and posture are stressed and applied to songs with specific vocal problems. *One class hour per week. Fall, Winter, and Spring. Credit, one quarter hour each quarter.*

104-105-106, 204-205-206, 304-305-306, 404. APPLIED MAJOR AREA. These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of his advisor. Regular lessons are scheduled, and periodic performances will be expected of the student during each year of his training. *One class hour per week. Fall, Winter, and Spring. Credit, one quarter hour each quarter.*

201-202-203. INTERMEDIATE INSTRUMENTS:
Piano: A continuation of Music 101-102-103. Such skills as memorization, sight-reading, harmonization, and transposition will be additional goals.
Brass, Woodwind, and Percussion: A continuation of the basic elements and techniques. An introduction to solo and chamber music is made. Percussion players will commence study on other instruments such as snare, bass, and kettle drums. *One class hour per week. Fall, Winter, and Spring. Credit, one quarter hour each quarter.*

201-202-203. INTERMEDIATE VOICE. This course continues the development of Music 101-102-103. More particular attention is given to understanding the oratorio, cantata, recitative, and German lieder. *One class hour per week. Fall, Winter, and Spring. Credit, one quarter hour each quarter.*

301-302-303. ADVANCED INSTRUMENTS:
Piano: Students are expected to cover more advanced materials and display certain technical skills. The development of repertoire will be stressed.

Brass, Woodwind, and Percussion: Emphasis is placed on building a music library of concert materials and methods. Wind instrument players will study single, double, and triple-tonguing. Percussion players will develop their ability to execute with facility and will study various percussion instruments of definite pitch. *One class hour per week. Fall. Winter. Spring. Credit, one quarter hour each quarter.*

301-302-303. ADVANCED VOICE. The continuation of vocal technique studied in previous courses. Vocal forms in several languages will be introduced. *One class hour per week. Fall. Winter. Spring. Credit, one quarter hour each quarter.*

401. SENIOR INSTRUMENTS:
Piano: Concert repertoire and public performances will be stressed.
Brass, Woodwind, and Percussion: Continued emphasis is placed on building a music library, concert material, and methods. Stress is placed on complete mastery in playing and on public performances. *One class hour per week. Fall. Credit, one quarter hour.*

401. SENIOR VOICE. During this year the student will concentrate primarily on perfecting his repertoire. *One class hour per week. Fall. Credit, one quarter hour.*

Conducting

407-408. CONDUCTING (INSTRUMENTAL OR CHORAL). A study of the techniques necessary for conducting instrumental and choral organizations. *Three class hours per week. Fall. Winter. Credit, three quarter hours each quarter.*

History

314-315. HISTORY AND LITERATURE OF MUSIC. A survey of the history of music from the beginning of the Christian era to the present. Emphasis is placed upon a study of representative works by major composers, together with a comprehensive analysis of style and musical development in their countries. *Three class hours per week. Fall. Winter. Credit, three quarter hours each quarter.*

Music Education

300. FUNDAMENTALS OF ELEMENTARY SCHOOL MUSIC. A course in notation, scales, key signatures, intervals, ear-training, and sight-singing. Special attention is given to these elements as they apply to children's songs. Required for majors in Elementary Education. *Three class hours per week. Fall. Winter or Spring. Credit, three quarter hours.*

301. PUBLIC SCHOOL MUSIC—ELEMENTARY GRADES. The singing of rote songs, the making of rhythm band instruments, playing flutes, playing the autoharp and melody bells, conducting, writing units, and making a scrapbook are some of the activities in this course. *Prerequisites: Music 111-112-113 for Music Majors; Music Education 300 for majors in Elementary Education and Music Education. Three class hours per week. Fall, Winter, or Spring. Credit, three quarter hours.*

308. HIGH SCHOOL MUSIC. A study of the methods and materials for teaching music in High School. *Three class hours per week. Spring. Credit, three quarter hours.*

412. SEMINAR IN MUSIC EDUCATION. This course is organized to assist Senior music majors with specific problems in Music Education and to prepare them to handle special projects within their areas of interest. *Prerequisites: Mus. Ed. 301, Mus. Ed. 308. Three class hours per week. Winter. Credit, three quarter hours.*

Theory

111-112-113. THEORY I. (Ear-training and Sight-Singing.) A course in notation, time signatures, major and minor scales, intervals, melodic and rhythmic problems, song reading, and musical dictation. *Three class hours per week. Fall, Winter, and Spring. Credit, three quarter hours each quarter.*

211-212-213. THEORY II (Harmony). A continuation of Theory I with a study of modulations, advanced chords, harmonization of melodies, and analyses of standard compositions. *Three class hours per week. Fall, Winter, and Spring. Credit, three quarter hours each quarter.*

307. ORCHESTRATION AND INSTRUMENTATION. A study of the range, playing techniques and musical characteristics of all instruments with emphasis upon the orchestral score and the writing of music for instrumental ensembles. *Three class hours per week. Fall. Credit, three quarter hours.*

311. THEORY III (Form and Analysis). A study of the construction of music from the eighteenth century to the present, including the harmonic and melodic analyses of pieces by major composers. *Three class hours per week. Spring. Credit, three quarter hours.*

411. THEORY IV (Counterpoint and Composition). A course designed to give creative experiences in contrapuntal and compositional techniques in various forms of music. *Prerequisites: Music 111-112-113, 211-212-213, 307, and 311. Three class hours per week. Fall. Credit, three quarter hours.*

DEPARTMENT OF MODERN LANGUAGES

HOWARD M. JASON, *Head*

Eusebio M. Valle — Althea V. Morton

Christopher D. Koch

The aims of the Department of Modern Languages are (1) to develop the ability to communicate in a foreign language; (2) to instill respect for other peoples and other cultures; (3) to develop an appreciation for the artistic expressions which are found in other languages; and (4) to bring about a greater awareness of our own cultural heritage. Underlying these aims is the ultimate goal of preparation for a more effective life.

LANGUAGE PROGRAMS

To realize these aims the Department offers instruction in the foreign languages (French, German, and Spanish) which are generally required in the several curricula of the college. In addition,

it offers courses leading to the degree of Bachelor of Science in Education with a concentration in French or Spanish. The language teaching program requires completion of a minimum of forty quarter hours in one foreign language, beyond the elementary courses. A student completing the degree requirements with one of these sequences may be recommended for certification to teach the language. The programs for French and Spanish teachers are listed under caption of the Division of Education.

This Department offers also a minor in French and a minor in Spanish. The French minor comprises French 241, 242, 243, 341, 342, 343. The Spanish minor consists of Spanish 261, 262, 263, 361, 362, 363.

THE GENERAL REQUIREMENT

The general modern language requirement is one year (15 quarter hours) of acceptable work in one language. Students who have had no foreign language and those who present fewer than two units of high school credit normally take the elementary course. If a student has earned two or more units in a foreign language in high school and continues the study of the same language, it is recommended that he take an examination administered by the Department for placement purposes. When a student begins the study of a foreign language at the intermediate level, two courses are sufficient to meet the language requirement for graduation.

DESCRIPTION OF COURSES

FRENCH

241-242. INTERMEDIATE FRENCH. For students who have had one year of college French or who have had two years of high school French and pass an appropriate examination. An intensive review of the basic principles of the language and practice in speaking and writing based on readings of moderately difficult prose. The courses are taken in sequence. *Prerequisite: French 143, or a satisfactory grade in the placement test administered by the Department. Five class hours a week. Fall and Winter. Credit, five quarter hours each quarter.*

243. FRENCH CONVERSATION AND COMPOSITION. This course is designed to accustom the student to understand, speak, and write conversational French. It is conducted primarily in French. *Prerequisite: French 242. Five class hours a week. Spring. Credit, five quarter hours.*

341-342. SURVEY OF FRENCH LITERATURE. This course begins with the literature of our times and ends with the chanson de geste. Emphasis is placed on such writers as Sartre, Baudelaire, Balzac, Hugo, Rousseau, Moliere, Pascal, Montaigne, Rabelais. Attention is paid to poetry as well as prose. Conducted mainly in French. The courses are taken in sequence. *Prerequisite: French 242. Three class hours a week. Fall and Winter. Credit, three quarter hours each quarter.*

343. FRENCH CIVILIZATION. This course, conducted mainly in French, seeks to acquaint the student with the principal contributions of France to Western civilization. *Prerequisite: French 242. Four class hours a week. Credit, four quarter hours.*

344. ORAL COMMUNICATION. In this course the student develops further his ability to understand and speak French. Discussion of topics of national and international interest found in news media and in French publications. Conducted in French. *Prerequisite: French 243. Five class hours a week. Credit, five quarter hours.*

345-346-347. STUDY IN FRANCE. Study in France for one summer in the Study Abroad Program of the University System of Georgia. The student lives with a French family, takes courses in language, literature and civilization, and is expected to participate in the extra-curricular activities planned by the staff of the Study Abroad Program. *Prerequisite: French 243. Credit, five quarter hours each.*

441. LITERATURE OF THE XVIITH CENTURY. The important plays of Corneille, Racine, and Moliere are studied. Lectures, readings, reports and discussions. Conducted in French. *Prerequisite: French 342. Five class hours a week. Credit, five quarter hours.*

442. THE ROMANTIC MOVEMENT. A study of the origins, the history, the principal authors, and the influences of the Romantic Movement. Conducted in French. *Prerequisite: French 342. Five class hours a week. Credit, five quarter hours.*

444. LITERATURE OF THE XXTH CENTURY. Lectures, readings, reports, and discussion of the principal writers and trends of French literature today. Conducted in French. *Prerequisite: French 342. Five class hours a week. Credit, five quarter hours.*

445. SPECIAL PROBLEMS IN FRENCH. An investigation of an area of special interest to the student and to the instructor. *Prerequisite: Consent of the department head. One to five class hours a week. Credit, one to five quarter hours.*

SPANISH

261-262. INTERMEDIATE SPANISH. For students who have had one year of college Spanish, or who have had two years of high school Spanish and pass an appropriate examination. An intensive review of the basic principles of the language; practice in speaking and writing based on readings of moderately difficult prose. The courses are taken in sequence. *Prerequisite: Spanish 163, or a satisfactory grade in the placement test administered by the Department. Five class hours a week. Fall and Winter. Credit, five quarter hours each quarter.*

263. SPANISH CONVERSATION AND COMPOSITION. The main purpose is to accustom the student to understand, speak, and write conversational Spanish. It is conducted mainly in Spanish. *Prerequisite: Spanish 262. Five class hours a week. Spring. Credit, five quarter hours.*

361-362. SURVEY OF SPANISH LITERATURE. These courses introduce the student to some of the principal authors, literary compositions, and ideas in the literature of Spanish-speaking countries. Conducted mainly in Spanish. The courses are taken in sequence. *Prerequisite: Spanish 262. Three class hours a week. Fall and Winter. Credit, three quarter hours each quarter.*

363. SPANISH CIVILIZATION. This course, conducted mainly in Spanish, seeks to acquaint the student with the principal contributions of Spain to Western civilization. *Prerequisite: Spanish 262. Four class hours a week. Credit, four quarter hours.*

364. ORAL COMMUNICATION. In this course the student further develops his ability to understand and to speak the language. Discussion of topics of national and international interest found in the news media and in Spanish magazines. Conducted in Spanish. *Prerequisite: Spanish 263. Five class hours a week. Spring. Credit, five quarter hours.*

365-366-367. STUDY IN SPAIN. Study in Spain for one summer in the Study Abroad Program of the University System of Georgia. The student lives with a Spanish family, takes courses in language, literature and civilization, and is expected to participate in the extracurricular activities planned by the staff of the Study Abroad Program. *Prerequisite: Spanish 263. Credit, five quarter hours each.*

461. LITERATURE OF THE GOLDEN AGE. Lectures, readings, reports and discussions on the principal authors of the XVIth and XVIIth centuries. Conducted in Spanish. *Prerequisite: Spanish 362. Five class hours a week. Winter. Credit, five quarter hours.*

462. LITERATURE OF THE XIXth CENTURY. A study of the principal figures of the century in the novel, drama and poetry—with special attention to Modernism, Regionalism, Realism and Romanticism. Conducted in Spanish. *Prerequisite: Spanish 362. Five class hours a week. Winter. Credit, five quarter hours.*

463. SPANISH-AMERICAN LITERATURE. A study of the principal authors and literary forms in the literature of Spanish America from the present to its beginnings in the colonial period. Conducted in Spanish. *Prerequisite: Spanish 362. Five class hours a week. Fall. Credit, five quarter hours.*

465. SPECIAL PROBLEMS IN SPANISH. An investigation of an area of special interest to the student and to the instructor. *Prerequisite: Consent of the department head. One to five class hours a week. Credit, one to five quarter hours.*

*See also "Humanities" under the heading of the Department of English for introductory courses in French and Spanish.

DIVISION OF NATURAL SCIENCES

MARGARET CHISHOLM ROBINSON, *Chairman*

PHILOSOPHY AND PURPOSES

The philosophy and purposes of the Division of Natural Sciences are, in general, consistent with the overall philosophy of the college. Specifically, the Division accepts the responsibility to help students:

1. To gain basic preparation, knowledge and skills necessary to the satisfaction of their personal needs as well as the needs of home and society.

2. To acquire specialized training in one of the Natural Sciences, and to develop individual talents and intellectual curiosity which are essential to further study and progress.

3. To develop an understanding of mental, emotional, and physical health, and to practice habits that are conducive to sound personal and community health.

DEPARTMENT OF BIOLOGY

MARGARET CHISHOLM ROBINSON, *Head*

T. J. Culpepper
C. M. Desha
F. R. Hunter
P. V. Krishnamurti
K. G. Nambiar
*L. Richardson
J. W. Swanberg
G. L. Vertrees
S. O. Williams
*B. L. Woodhouse

The aims of the Department of Biology are: (1) to provide for all students that knowledge which is essential to an understanding of the biological basis of living; (2) to provide preprofessional training for persons interested in pursuing health careers such as medicine, veterinary medicine, dentistry, pharmacy, and paramedical careers such as medical technology, nursing, physical therapy, medical illustration, medical social worker, and medical secretaries; (3) to provide preprofessional study through the media of advanced courses

*On leave

for persons interested in careers requiring graduate work such as industrial and biological research, public health, college-level teaching, medical school teaching, secondary school teaching, and specialists in the biological sciences.

To realize these aims, the Department of Biology offers courses leading to the Degree of Bachelor of Science with a major in Biology as well as a minor.

In addition, the Department of Biology offers courses for satisfying requirements for the Bachelor of Science in Education with a Concentration in Biology. This curriculum is listed in the Teacher Education Curriculum under the Department of Secondary Education.

PLAN OF STUDY

Biology 123-124 is designed for non-science majors as a part of the general curriculum. The Biology Major: Biology 128, 200, 201, 202 and 203 comprises the basic Modern Biology Core requirements for all students majoring in Biology, and who desire training preparatory to either medical and paramedical careers or graduate study. Subsequent to the sequential completion of the Biology Core, students are required, in counsel with academic advisors, to select an option of biology electives according to their interest and desired area of concentration. The Biology Electives Option becomes a part of the student's formal records as requirements for graduation filed in the Department of Biology and in the Registrar's Office.

Students interested in paramedical (Health) careers satisfy the two-year basic Modern Biology Core sequence and science cognates according to specific requirements of selected specialized training schools. Students are required to plan health careers curriculums with an assigned advisor.

For the major at least thirty-five quarter hours on the junior and senior levels are required. For the minor, at least twenty-five quarter hours on the junior and senior levels are required.

BIOLOGY CURRICULUM

FRESHMAN YEAR

Descriptive Title	*Course & No.*	*Quarter Hours Credit*		
Preprofessional		*Fall*	*Winter*	*Spring*
ED 103	Freshman Lectures	(R)	(R)	(R)
CHEM 101-104	General Inorganic	5	5	
BIO 128	Principles of Biology			3
HMN 107-108-109	English Communicative Skills	5	5	5
SOC SC 102	History of Western Culture			5
MATH 107-108	College Algebra and Trigonometry	5	5	
P ED 111-113	Seasonal Activities	1	1	
P ED 321	Beginners Swimming			1
		16	16	14

SOPHOMORE YEAR

BIO 200	Molecular and Cellular Biology	3		
P SC 200	Government	5		
SOC SC 201	Psychological Basis for Human Behavior			5
PHY 201-202	General Physics		5	5
BIO 201	Organismal Biology		3	
BIO 202	Biological Organization and Control			3
BIO 203	Environmental Biology			3
MATH 212-213	Analytical Geometry and Differential	5	5	
CHEM 303	Analytical Chemistry	5	5	
P ED 211-212-213	Seasonal Activities	1	1	1
		19	19	17

JUNIOR YEAR

HMN 141-142-143 or 151-152-153	Elementary French or German	5	5	5
CHEM 307-308	Organic Chemistry	5	5	
BIO 303	Genetics (Principles of)	5		
BIO 304	Histochemistry and Microtechnique			5
HMN 132-133-134	Introduction to Humanities	5	5	4
CHEM 331	Bio-Physical Chemistry			5
BIO 306	General Microbiology		5	
BIO 430	Seminar			NC
		20	20	19

SENIOR YEAR

BIO 430	Seminar	1		
BIO 431	Introduction to Research	2		
CHEM 404	Biochemistry	5		
HIST 300	History of the U.S. and Georgia		5	
Elective Major		5	10	5
Elective Cognate				5
		13	15	10

Quarter Hours Required 195

BIOLOGY MAJOR ELECTIVE OPTIONS

Ecology Group
Junior .....301-General Botany (in place of Hist. and microtechnique)
406-Plant Physiology
Senior .....309-Principles of Ecology
400-Physiological Ecology
328-Field Ecology
421-Natural History of Vertebrates

Marine Biology Group
Junior .....315-Invertebrate Zoology
Senior .....415-Marine Biology
400-Physiological Ecology or 301-General Botany
320-Nonvascular Plants
328-Field Ecology

Microbiology Group
Junior .....301-General Botany
Senior .....401-General Physiology
425-Bacterial Physiology
426-Virology
427-Mycology

Zoology Group
Junior .....301-General Botany
Senior .....315-Invertebrate Zoology
318-Vertebrate Structure and Function
326-Vertebrate Embryology
401-General Physiology or
421-Natural History of Vertebrates
405-General Entomology

Botany Group
Junior .....301-General Botany
Senior .....315-Invertebrate Zoology
320-Nonvascular plants
321-Vascular Plants
406-Plant Physiology or
324-Plant Anatomy
302-Field Botany
409-Economic Botany

FRESHMAN YEAR

Descriptive Title	*Course & No.*	*Quarter Hours Credit* Fall	Winter	Sprin
Premedicine				
ED 103	Freshman Lecture	(R)	(R)	(R)
CHEM 101-104	General Inorganic	5	5	
BIO 128	Principles of Biology			3
HMN 107-108-109	English Communicative Skills	5	5	5
SOC SC 111	World and Human Geography			5
MATH 107-108	College Algebra and Trigonometry	5	5	
P ED 111-113	Seasonal Activity	1	1	
P ED 321	Beginners Swimming			1
		16	16	14

SOPHOMORE YEAR

BIO 200	Molecular and Cellular Biology	3		
CHEM 300	Analytical Chemistry	5		
HMN 132-133-134	Introduction to Humanities	5	5	4
BIO 201	Organismal Biology		3	
BIO 202	Biological Organization and Control			3
BIO 203	Environmental Biology			3
MATH 212-213	Analytical Geometry and Differential Calculus	5	5	
P SC 200	Psychological Basis for Human Behavior		5	
SOC SC 201	Government			5
P ED 211-212-213	Seasonal Activity	1	1	1
		19	19	16

JUNIOR YEAR

HMN 141-142-143	Elementary French or German	5	5	5
PHY 201-202-203	General Physics	5	5	5
BIO 301	General Botany	5		
BIO 304	Histochemistry and Microtechnique			5
BIO 318	Vertebrate Structure and Function		5	
CHEM 307-308	Organic Chemistry	5	5	
		20	20	15

SENIOR YEAR

HIST 300	History of Georgia and U.S.		5	
BIO 306	General Microbiology		5	
BIO 303	Principles of Genetics			5
BIO 401	General Physiology	5		
BIO 326	Vertebrate Embryology			5
CHEM 331	Biophysical Chemistry		5	
CHEM 404	Biochemistry	5		
BIO 430	Seminar	1		
BIO 431	Introduction to Research	2		
Elective Cognate				5
		13	15	15

Quarter Hours Required 195

PARAMEDICAL (HEALTH) CAREER OPTIONS

Medical Technology	Dental Hygiene
Medical Illustration	Medical Secretary
Physical Therapy	PreDentistry
Occupational Therapy	PrePharmacy
Medical Record Librarian	Hospital Administration
Radiology Technology	Medical Accounting

Medical Social Worker

Biology Core Sequence - Biology 128, 200-201-202-203.
Mathematics - 107-108; 212-213.
Chemistry - 101-104; 307-308.
Physics - 202-202.

DESCRIPTION OF COURSES

123-124. GENERAL BIOLOGY. An introductory course for non-science majors which deals with the fundamental principles of plant and animal life. *Biology 123 is prerequisite to Biology 124. Three class hours and two two-hour laboratory periods a week. Fall. Winter. Spring. Credit, five quarter hours.*

128. PRINCIPLES OF BIOLOGY. Presentation of Biology in broad perspective; to include such topics as origin of life, reproduction, heredity, interrelationship of living things to their environment. *Prerequisite: General Inorganic Chemistry. Two class hours and two two-hour laboratory periods a week. Spring. Credit, three class hours.*

200. MOLECULAR AND CELLULAR BIOLOGY. Concepts of biochemistry and biophysics of cells, nutrition, metabolism and energy transfer, molecular genetics, cellular anatomy and physiology, cytology and ultrastructure. *Prerequisite: Principles of Biology. Two class hours and two two-hour laboratory periods a week. Fall. Credit, three quarter hours.*

201. ORGANISMAL BIOLOGY. Related Molecular and Cellular biology to the organismal concept, emphasizing structural and functional aspects to whole organisms (vertebrate animals and vascular plants), their development, life histories, behavior, diversity and evolution. *Prerequisite: Molecular and Cellular Biology. Two class hours and two two-hour laboratory periods a week. Winter. Credit, three class hours.*

202. BIOLOGICAL ORGANIZATION AND CONTROL. Concepts of mendelian genetics, morphology, growth and development, reproduction, tissue and organs structure, neural and endocrine control merchanisms, feedback and cybernetics. *Prerequisite: Organismal Biology. Two class hours and two two-hour laboratory periods a week. Spring. Credit, three quarter hours.*

203. ENVIRONMENTAL BIOLOGY. Studies of population genetics and dynamics, environmental adaptations, evolution, behavior, ecology, and telemetry. *Prerequisite: Biological Organization and Control. Two class hours and two two-hour laboratory periods a week. Spring. Credit, three quarter hours.*

301. GENERAL BOTANY. A survey of the plant kingdom with emphasis upon the economic plants. *Prerequisites: General Inorganic, and at least one course in introductory biology. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

302. FIELD BOTANY. (Amalgamation of Advanced General Botany with local flora). A study of plants common to this area, including the identification, classification, and preservation of plant specimens. *Prerequisite: General Botany. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

303. PRINCIPLES OF GENETICS. Fundamental principles of Genetics: Variation, heredity, physical basis of mendelian inheritance, expression and interractions of genes, sex-linkage, linkage mutation and extra chromosomal inheritance. Study also includes basic concepts in regard to biochemical Genetics and population Genetics. *Prerequisites: At least two or three courses in Biology. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

304. BIOLOGICAL HISTOCHEMISTRY AND MICROTECHNIQUE. The sectioning, staining and preservation of biological materials. Theory and application of modern technics and instruments to Biological problems. For the advanced Biology student. *Prerequisites: Organic Chemistry and at least three courses in Biology. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

306. MICROBIOLOGY. An introduction to some fundamental concepts and techniques of microbiology, with emphasis on bacterial anatomy and physiology, principles of microbial growth, nutrition, and metabolism. *Prerequisites: Five hours of Organic Chemistry and at least ten hours of Biological Sciences. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

307. HUMAN ANATOMY AND PHYSIOLOGY. A detailed study of the location and functions of the organs in the human body. *Prerequisites: Five hours of Organic Chemistry and at least ten hours of Biological Sciences. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

308. PLANT MORPHOLOGY AND STRUCTURE. A general consideration of the major plant groups inclusive of certain major angiosperms. The viruses, bacteria, algae, fungi, bryophytes, pteriodophytes and gymnosperms will be considerably emphasized. *Prerequisites: General and Field Botany. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

309. PRINCIPLES OF ECOLOGY. The structure and function of ecosystems in regard to energy flow, nutrient cycling, population growth and regulation, and community organization and dynamics. Man's impact on ecosystems and resulting social problems. Much of the laboratory work will be conducted in the field. *Prerequisites: General Chemistry and at least ten hours of Biological Sciences. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

311. GENERAL OCEANOGRAPHY. Approximately three weeks each devoted to Physical and Meterological Oceanography, Geological Oceanography, Chemical Oceanography, and Biological Oceanography. Emphasis upon interrelationship of the various branches of Marine Science and the role of the oceans in global physical and ecological cycles. *Prerequisites: Inorganic Chemistry, General Physics, and Twenty hours of Biological Sciences. Three class hours and two two-hour laboratory periods a week. Fall, Spring. Credit, five quarter hours.*

315. INVERTEBRATE ZOOLOGY. A study of major phyla and classes of invertebrate animals, morphology, physiology, life histories and taxonomic relationships of selected representatives of the groups. *Prerequisites: Ten hours of Biological Sciences. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

318. VERTEBRATE STRUCTURE AND FUNCTION. (Amalgamation of Comparative Vertebrate Anatomy and Histology of Vertebrates) - The comparison of the structure and development of organ systems in the different vertebrate groups, with emphasis on the gross anatomy of the cat including a study of cells and tissues and the organization in organs and organ systems. *Prerequisites: Fifteen hours of Biological Sciences. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

320. NON-VASCULAR PLANTS. A survey of the algae, fungi, and mosses stressing life histories, morphology, ecology, and identification of common forms. *Prerequisite: General Botany. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

321. VASCULAR PLANTS. A survey of the vascular plants stressing the lower groups and including life histories, morphology, ecology, and identification. Some time will be devoted to fossil forms. *Prerequisite: General Botany. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

324. PLANT ANATOMY. A general consideration of the anatomy of seed plants with special emphasis on angiosperms. *Prerequisite: Plant Morphology. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

326. VERTEBRATE EMBRYOLOGY. The early embryological development of vertebrate including fertilization, cleavage and origin of organ systems. *Prerequisite: Biological Histochemistry. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

328. FIELD ECOLOGY. An advanced field course involving population ecology. Methods of measuring plant and animal populations, demographic analysis and movements of organisms will be intensively studied. Primarily a field course for upper classmen. *Prerequisites: General Botany and Invertebrate Zoology. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

330. HISTORY OF BIOLOGY. A comprehensive study of the broad features of biological progress, sources of ideas that dominate biology, major doctrines, theories, and contributions of outstanding scientists in preserving continuity of development in biological thought. *Prerequisites: Fifteen hours of Biological Sciences. Three class hours. Fall. Credit, three quarter hours.*

400. PHYSIOLOGICAL ECOLOGY. A study of the anatomical, biochemical, and physiological adaptations of plants and animals to specific environments. Emphasis will be placed on the physiological problems faced by organisms common to the local salt marsh and marine environments. *Prerequisites: Principles of Ecology and Organic Chemistry. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

401. GENERAL PHYSIOLOGY. A study of the physics and Chemistry of mechanisms underlying functional occurrences in living organisms, particularly those involved in homeostasis. *Prerequisites: Twenty hours of Biological Sciences, Organic Chemistry, and General Physics. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

402. COMPARATIVE PHYSIOLOGY. A systematic study of the functions of the organs in the animal kingdom and the physiological principles involved. *Prerequisite: General Physiology. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

404. GENERAL PARASITOLOGY. An introduction course which covers the methods of identifying, classifying, and studying the life cycles of parasites that affect both plants and animals. Major emphasis is placed upon species infesting man and local marine fauna, and includes their structure, physiology, ecology, life cycle, and pathogenicity. *Prerequisites: General Botany, Invertebrate Zoology, and ten hours of Inorganic Chemistry. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

405. GENERAL ENTOMOLOGY. A study of the orders of insects, considering their characteristics, methods of reproduction, life histories, and economic relations, together with the collecting and identifying of representative forms from Southern Georgia. *Prerequisites: General Botany, Invertebrate Zoology, and ten hours of Inorganic Chemistry. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

406. PLANT PHYSIOLOGY. An introduction to cellular and organismal functions important in the life of green plants with emphasis on the physical and chemical basis of the observed properties and processes. *Prerequisites: General and Field Botany and Organic Chemistry. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

407. PLANT PATHOLOGY. A systematic treatment of selected parasites and disease of plants. Special emphasis given to symptom development and methods of control. *Prerequisites: General Botany, Invertebrate Zoology and Inorganic Chemistry. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

409. ECONOMIC BOTANY. A study of plants useful to man and the economy of the world. Emphasis will be placed on crops, drugs, plant products, and poisonous plants. Origin, evolution and geographical distribution will be considered. *Prerequisites: General and Field Botany, Inorganic and Organic Chemistry. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

410. MARINE BIOLOGY. An introduction to the physiology, morphology taxonomy, and ecology of marine organisms. A brief examination of the various marine biotopes, methods of sampling, examination and identification of marine organisms, and data processing and interpretation. *Prerequisites: Inorganic and Organic Chemistry and Twenty hours of Biological Sciences. Three class hours and two two-hour laboratory periods a week. Fall, Spring. Credit, five quarter hours.*

415. MARINE BIOLOGY. An introduction to the physiological and ecological biology of microorganisms, plants and animals of the sea and its shores. *Prerequisites: General Botany and Invertebrate Zoology. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

418. PHYSIOLOGICAL CHEMISTRY. A course dealing with fundamentals of biological chemistry with emphasis upon chemical structure, the properties of enzymes, intermediary metabolism, energy transformation and regulation of cellular processes. *Prerequisite: Organic Chemistry. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

420. MOLECULAR GENETICS. The nature and function of genetic material, genetic code and physical basis of inheritance. The study also includes genetic control of cellular metabolism; mechanism of gene action; genetic capacity for biosynthesis; gene enzyme relationship; and chemical nature of agents of heredity. *Prerequisites: Principles of Genetics and Organic Chemistry. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

421. NATURAL HISTORY OF VERTEBRATES. A study of the classification and biology of vertebrates of North America with emphasis on local forms. *Prerequisites: Twenty hours of Biological Sciences. Three class hours. Spring. Credit, three quarter hours.*

422. CYTOLOGY AND ULTRASTRUCTURE. Structure and function of plant and animal cells. Emphasis is placed upon ultrastructure, metabolism and division. *Prerequisites: Histochemistry and Microtechnique and Organic Chemistry. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

424. RADIATION BIOLOGY. A course dealing with the basic principles involved in the mode of action of ionizing ultraviolet, and solar, radiation and general survey of their effects on biological systems. Principles, theory and use of detectors and counting instruments will be emphasized. *Prerequisite: General Physiology. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

425. BACTERIAL PHYSIOLOGY. A review of current knowledge of bacterial growth and reproduction considered at the molecular level. Study of cellular structure growth-kinetics, the synthesis of DNA, RNA and protein, the regulation of metabolism and general cellular physiology; the patterns of energy generation and biosynthesis and their regulation. *Prerequisites: Microbiology and General Physiology. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

426. VIROLOGY. A study of the biological, chemical, and physical characteristics of the viruses with emphasis on the techniques of isolation and cultivation. *Prerequisite: Microbiology. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

427. MYCOLOGY. A study of the ecology, physiology and systematics of micro-fungi with emphasis on those forms of industrial or general economic importance. *Prerequisite: Microbiology. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

430. BIOLOGY SEMINAR. Designed to introduce the student to research techniques, biological publications, manuscript writing methods of biological research, and recent advances in biological sciences. Students will be required to conduct an independent investigation and to report the results obtained. *Prerequisites: Junior or Senior Standing. One quarter hour. Fall, Winter and Spring. Credit, one quarter hour.*

431. INTRODUCTION TO RESEARCH. Well prepared senior Biology majors may be permitted to carry on independent study upon the recommendation of the instructor under whom the student wishes to work. The recommendation must have the approval of the Head of the Biology Department. *Prerequisite: Senior Standing. Two quarter hours. Fall. Winter. Spring. Credit, two quarter hours.*

435. BSCS LABORATORY WORKSHOP. A course designed especially for junior level prospective teachers of Biology. A comprehensive study of the blue, green and yellow version of BSCS high school biology. Laboratory experiences will include utilization of actual BSCS materials and apparatus. *Prerequisite: Junior Standing. Fall. Credit, eight quarter hours.*

440. SENIOR RESEARCH. Senior majors having demonstrated exceptional potential in Introduction to Research may be permitted to carry on relatively independent research. Acceptance requires a recommendation from the instructor under whom the student wishes to work and approval by the Head of the Biology Department. *Prerequisite: Senior Standing. Fall. Winter. Spring. Credit, three quarter hours.*

DEPARTMENT OF CHEMISTRY

WILLIE G. TUCKER, *Head*

Manchery P. Menon Kamalakar B. Raut

The work in the Department of Chemistry is intended to serve four purposes: (1) to provide a thorough foundation in the general courses for students who seek an understanding of the methods and achievements of the chemist; (2) to include the needed semi-specialized preparation for students who are majoring in home economics and engineering technology; and (3) to afford training for persons who plan to teach science in the secondary school; (4) to include preprofessional training for students who intend to study dentistry, medicine, and the like, and for those who plan to enter graduate school.

The Department of Chemistry offers the usual general courses, a minor sequence, and courses leading to the degree of Bachelor of Science with a major in chemistry.

For those who plan to teach science in the secondary school, the Division of Natural Sciences provides a general science concentration. The curriculum is listed under caption of the Department of Secondary Education.

CHEMISTRY CURRICULUM

FRESHMAN YEAR

Descriptive Title	*Course & No.*	*Quarter Hours Credit* Fall	Winter	Spring
CHEM 101-102-103	General Inorganic Chemistry	5	5	5
ED 100	Freshman Lectures	(R)		
HUM 107-108-109	English Communicative Skills	5	5	5
P ED 111-113	Seasonal Activities	1	1	
SOC SCI 101-102	History of Western Culture	5	5	
POL SC 200	Government			5
		16	16	15

SOPHOMORE YEAR

MATH 107-108	College Algebra & Trigonometry	5	5	
MATH 109	Analytic Geometry			5
HUM 151-152-153	Elementary German	5	5	5
HUM 207-208-209	World Literature	3	3	3
CHEM 307-308-309	Organic Chemistry	5	5	5
P ED 211-212-213	Seasonal Activities	1	1	1
		19	19	19

JUNIOR YEAR

BIO 123-124	General Biology	5	5	
MATH 212-213	Analysis I, II	5	5	
SOC SC 201	Psychological Basis for Human Behavior			5
CHEM 303-304-305	Analytical Chemistry	5	5	4
HIST 300[1]	History of the U.S. & Ga.			5
CHEM 313-409-410	Organic Preparations	1	1	1
CHEM 311-407	Introduction to Chemical Research		1	1
		16	17	16

SENIOR YEAR

CHEM 401-402-403	Physical Chemistry	4	4	4
PHY 201-202	General Physics	5	5	
CHEM 404-405	Biochemistry	5	3	
CHEM 406	Biochemical Preparations			2
CHEM 407	Introduction to Chemical Research	1		
CHEM 408	Chemical Seminar	1	1	1
CHEM 415	Chemical Literature			1
Elective				5
		16	13	13

Total quarter hours required for graduation 195

[1]If the student has satisfied the history requirement through examination, he should take an elective.

MEDICAL TECHNOLOGY CURRICULUM

FRESHMAN YEAR

Descriptive Title	*Course & No.*	*Quarter Hours Credit* Fall	Winter	Spring
ED 100	Freshman Lectures	(R)		
CHEM 101-102-103	General Inorganic Chemistry	5	5	5
HUM 107-108-109	English Communicative Skills	5	5	5
P ED 111-113	Seasonal Activities	1	1	
SOC SC 101	History of Western Culture			5
MATH 107-108	College Algebra & Trigonometry	5	5	
		16	16	15

SOPHOMORE YEAR

HUM 151-152-153	Elementary German	5	5	5
BIO 123-124	General Biology	5	5	
CHEM 307-308	Organic Chemistry	5	5	
CHEM 350	Biochemical Analysis			5
SOC SC 103	History of Western Culture			5
P ED 211-212-213	Seasonal Activities	1	1	1
		16	16	16

JUNIOR YEAR

POL SC 200	Government	5		
SOC SC 201	Psychological Basis for Human Behavior		5	
HUM 207-208-209	World Literature	3	3	3
BIO 301-302	Comparative Anatomy of Vertebrate		5	5
CHEM 303-304	Analytical Chemistry	5	5	
Elective				5
CHEM 312	Chemical Seminar		1	
HIST 300[1]	History of the U.S. & Georgia	5		
BIO 306	General Bacteriology			5
CHEM 415	Chemical Literature	1		
		19	19	18

SENIOR YEAR[2]

Courses	*Number of Weeks*	*Didactic Hours*
Clinical Microscopy (including Orientation)	4	14
Chemistry and Biochemistry	12	57
Hematology	12	36
Immunology, Serology, Blood Bank	8	24
Microbiology	12	39
Radioisotopes	1	6
Miscellaneous Procedures	3	14
	52	190

[1]If the student has satisfied the history requirement through examination, he should take a senior elective.

[2]The senior year in medical technology consists of 52 weeks of study and practical experience in the Memorial Hospital Laboratory, or some other accredited hospital laboratory.

DESCRIPTION OF COURSES

101. GENERAL INORGANIC CHEMISTRY. An introduction to the fundamental principles of chemistry including laws of chemical change, properties of gases, stoichiometry, atomic structure, chemical bonding, periodic properties of elements, electrochemistry and chemical equilibrium. Laboratory experiments are designed to supplement class room lectures. *Four class hours and one three-hour laboratory a week. Fall, winter and summer. Credit, five quarter hours.*

102. GENERAL INORGANIC CHEMISTRY. This course is a continuation of chem. 101 and it includes a broad and general discussion of the chemistry of metals and non-metals, study of the properties of solutions, chemical kinetics, coordination compounds and the properties of liquids and solids. Basic concepts of organic chem. nuclear chemistry and biochemistry are discussed. *Four class hours and one three-hour laboratory a week. Winter, spring and summer. Credit, five quarter hours.*

103. GENERAL INORGANIC CHEMISTRY. Theory and laboratory practice in the fundamentals of analytical chemistry. The systematic separation and identification of cations and anions. *Prerequisites: Chemistry 101-102. Two class hours and three three-hour laboratory periods a week. Fall and spring. Credit, five quarter hours.*

104. GENERAL INORGANIC CHEMISTRY. This course is designed for biology major whose curriculum requires only two quarters of general chemistry. The course will cover certain topies of chem. 102 such as the properties of solutions chemical equilibrium and also those of chem. 103 dealing with the theory and method of qualitative analysis. Emphasis is placed more on laboratory work than on class room experience. *Two class hours and three three-hour laboratory periods. Winter and summer. Credit, five quarter hours.*

115. CHEMICAL CALCULATION. An introduction to the use of mathematics in chemistry. *One class hour a week. Winter. Credit, one quarter hour.*

303. ANALYTICAL CHEMISTRY. Theory and practice of volumetric methods of analysis. Aqueous acid-base titrations, acid-base reaction in non-aqueous solvents, complexometric titrations, oxidation and reduction. *Prerequisites: Chemistry 101, 102, 103. Three class hours and two three-hour laboratory periods a week. Fall. Credit, five quarter hours.*

304. ANALYTICAL CHEMISTRY. Gravimetric methods of analysis involving quantitative separation by volatilization, and quantitative precipitation processes. *Prerequisite: Chem. 103, 303. Three class hours and two three-hour laboratory periods a week. Winter. Credit, five quarter hours.*

305. INSTRUMENTAL METHODS OF ANALYSIS. This course covers the theory, techniques and methods of analysis using modern instruments. Potentiometric, conductometric, spectrophotometric (including infrared), polarographic, and chromatographic methods of analysis are practiced in the laboratory. *Two class hours and two three-hour laboratory periods a week. Winter. Credit, four quarter hours.*

307. ORGANIC CHEMISTRY. Preparation, tests, and properties of carbon compounds. Aliphatic compounds are emphasized. *Prerequisites: Ten quarter hours of college chemistry. Three class hours and two three-hour laboratory periods a week. Fall and summer. Credit, five quarter hours.*

308. ORGANIC CHEMISTRY. Continuation of Chemistry 307, with emphasis on carbocyclic and heterocyclic compounds. *Prerequisite: Chemistry 307. Three class hours and two three-hour laboratory periods a week. Winter and summer. Credit, five quarter hours.*

309. QUALITATIVE ORGANIC ANALYSIS. The chemical and physical properties of organic compounds are used in the laboratory for the purpose of separating and identifying them. *Prerequisites: Chemistry 308, 307. Two class hours and three three-hour laboratory periods a week. Spring. Credit, five quarter hours.*

310. THE CHEMISTRY OF TEXTILES. The chemical make-up of certain natural and man-made fibers is studied. *Prerequisite: Chemistry 307. Three class hours and two three-hour laboratory periods a week. Spring. Credit, five quarter hours.*

331. BIOPHYSICAL CHEMISTRY. This course is designed for pre-medical students and students in biological sciences or related disciplines. General topics of discussion in the course are colligative properties of solutions, thermodynamics, rates and mechanism of enzyme-catalyzed reactions, colloids and transport phenomena in liquids. *Prerequisites: junior standing. Four class hours and one three-hour laboratory a week. Winter and summer. Credit, five quarter hours.*

350. BIOCHEMICAL ANALYSIS. Chemistry of biochemical substances such as carbohydrates, proteins, fats, enzymes and vitamins with special emphasis on the laboratory techniques of identification and analysis of these substances. *Prerequisites: Chemistry 307, 308. Three class hours and two three-hour laboratory periods a week. Fall and summer. Credit, five quarter hours.*

401. PHYSICAL CHEMISTRY. Study of the behavior of gases, gas laws, kinetic theory of gases, thermochemistry, thermodynamics and homogeneous and heterogeneous chemical equilibria. Application of physical principles to the solution of chemical problems is highly emphasized. *Prerequisite: Math. 212-213, Phy. 201-202. Three class hours and one three-hour laboratory period a week. Fall. Credit, four quarter hours.*

402. PHYSICAL CHEMISTRY. This is a continuation of chem. 401 and includes such topics as atomic and molecular structure, quantum theory, chemical bonding, phase equilibria and properties of solutions. *Prerequisite: Chem. 401. Three class hours and one three-hour laboratory period a week. Winter. Credit, four quarter hours.*

403. PHYSICAL CHEMISTRY. This course, a continuation of chem. 402, deals with chemical kinetics, electrochemistry, phase rule, surface chemistry and also the properties of solids and liquids. *Prerequisite: Chem. 402. Three class hours and one three-hour laboratory period a week. Spring. Credit, four quarter hours.*

404. BIOCHEMISTRY. The chemistry of carbohydrates, lipids, proteins, mineral elements and water. *Prerequisite: Chemistry 307. Three class hours and two three-hour laboratory periods a week. Fall and spring. Credit, five quarter hours each quarter.*

405. BIOCHEMISTRY. Chemistry of vitamins, enzymes, hormones and mechanisms of digestion and animal and plant metabolism will be studied. *Prerequisite: Chemistry 404. Three class hours a week. Winter. Credit, three quarter hours.*

406. BIOCHEMICAL PREPARATIONS. Isolation and identification of compounds from natural products and synthesis of compounds with possible biochemical importance. *Prerequisite: Chem. 307 or 404. One three-hour laboratory period a week. Fall, winter and spring. Credit, one quarter hour.*

311-407. INTRODUCTION TO RESEARCH IN CHEMISTRY. Designed to acquaint the student with techniques used in simple research problems. Examination of chemical literature and experimental work. *Prerequisite: Junior standing in chemistry and consent of the staff. One three-hour laboratory period a week. Fall, winter and spring. Credit, one quarter hour.*

312-408. CHEMICAL SEMINAR. Modern developments in specific subdivisions of the field of chemistry are considered. *Prerequisite: Junior or senior standing. One class hour a week. Credit, one quarter hour each.*

313-409-410. ORGANIC PREPARATIONS. Selected synthesis, and name-reactions. *Prerequisites: Chemistry 307, 308. One three hour laboratory period a week. Fall, winter and spring. Credit, one quarter hour.*

411. RADIOISOTOPE TECHNOLOGY. This course will provide a basic understanding of the nuclear atom, knowledge of the detection and measurement of radioactivity, and also include a study of the many applications of radioisotopes in chemistry, biology, geology, etc. *Prerequisite: Junior standing in the major field. Three class hours and one three-hour laboratory period a week. Winter quarter. Credit, four quarter hours.*

415. CHEMICAL LITERATURE. This course covers the use of the library in general and the procedure to obtain chemical information in particular by referring to abstracts and journals; numerous library assignments are given in the course. *One class hour a week. Spring. Credit, one quarter hour.*

DEPARTMENT OF MATHEMATICS AND PHYSICS

JOHN B. CLEMMONS, *Head*

Venkataraman Ananthanarayanan
Jacquelyn M. Byers
Kailash Chandra
James S. Farinholt
Gian S. Ghuman
Sigmund Hudson
Jacob Englehardt
Prince A. Jackson
Walter W. Leftwich
Louis C. Marshall
Bernard Sherman
Martha W. Wilson
Wolfgang Wurz

The aims of the Department of Mathematics and Physics are: (1) to offer all students an opportunity for acquiring those basic skills which are needed for successful living, together with an appreciation

of the contributions of these sciences to the cultural heritage; (2) to equip students in business administration and the natural and technical sciences with the means of developing logical thought procedures and insight into physical laws—all of which constitute essential tools in the several fields; (3) to provide training through advanced courses for students preparing to undertake the study of science, engineering, and those planning to enter graduate school; and (4) to assure adequate preparation in both content and instructional skills for prospective teachers in the secondary school.

PROGRAMS FOR MATHEMATICS AND PHYSICS STUDENTS

This department offers the general mathematics courses required in all curricula of the college. It offers also two minor sequences:

MATHEMATICS MINOR

	Quarter Hours
MATH 107	5
MATH 108	5
MATH 109	5
MATH 212	5
MATH 213	5
MATH (senior elective)	5
Total	30

PHYSICS MINOR

	Quarter Hours
PHY 201-202-203	15
PHY 410	4
PHY (electives from 306, 307, 308, 312)	10
Total	29

It is preferable that the physics minor be taken in combination with a major requiring at least 10 quarter hours of chemistry, 5 quarter hours of college algebra, 5 quarter hours of trigonometry and 10 quarter hours of differential and integral calculus. The minor should begin with Physics 201.

Students who plan to teach mathematics in the secondary school should follow the mathematics teachers program which is listed under caption of the Department of Secondary Education.

This department offers courses leading to the degree of Bachelor of Science with a major in mathematics. The curriculum follows:

MATHEMATICS CURRICULUM

FRESHMAN YEAR

Descriptive Title	*Course & No.*	*Quarter Hours Credit* Fall	Winter	Spring
BIO 123	General Biology			5
ED 100	Freshman Lectures	(R)		
H ED 112	Personal Health		1	
HUM 107-108-109	English Communicative Skills	5	5	5
HUM 131	Introduction to Music and Art			5
*MATH 107-108	College Algebra & Trigonometry	5	5	
P ED 111, 113	Seasonal Activities	1		1
SOC SC 101-102	History of Western Culture	5	5	
		16	16	16

SOPHOMORE YEAR

EC 201	Principles of Economics		5	
HUM 141-142-143 or HUM 151-152-153 or HUM 161-162-163	Elementary French or Elementary German or Elementary Spanish	5	5	5
HUM 207-208-209	World Literature	3	3	3
MATH 212-213-214	Analysis I-II-III	5	5	5
P ED 211-212-213	Seasonal Activities	1	1	1
SOC SC 201	Psychological Basis for Human Behavior			5
Elective		5		
		19	19	19

JUNIOR YEAR

HIST 300[1]	History of the U.S. & Ga.			5
MATH 217	Introduction to Probability and Statistics	5		
MATH 315-316	Modern Algebra I-II	5	5	
MATH 318 or	Advanced Probability and Statistics		5	
MATH 306 or	Basic Computer Programming			
MATH 320	Theory of Equations			
PHY 201-202-203	General Physics	5	5	5
POL SC 200	Government			5
		15	15	15

SENIOR YEAR

MATH 405	Introduction to Higher Geometry	5		
MATH 406 or	Linear Algebra		5	
MATH 404 or	Differential Equations			
MATH 409 or	General Point Set Topology			
MATH 410	Introduction to Real Variable Theory			
MATH 411	Advanced Calculus			5
Electives	(Major or minor)	10	10	10
		15	15	15

Total quarter hours required for graduation 195

[1]If the student has satisfied the history requirement through examination, he should take an elective.

*Student may skip either or both courses in this sequence, upon recommendation of chairman of the department.

PROGRAM FOR EARTH SCIENCE MAJORS

Students who plan to teach earth science in the secondary school should follow the curriculum for earth science listed under the Department of Secondary Education.

DESCRIPTION OF COURSES

MATHEMATICS

106. BASIC MATHEMATICS. A basic requirement for students who do not achieve satisfactorily on the placement examination. The number systems; measurements; equations; formulas; verbal analyses of problems; measurements of angles, triangles, circles and polygons. *Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.*

107. COLLEGE ALGEBRA AND TRIGONOMETRY I. This course presents certain topics in algebra and trigonometry in a form that will make them most useful for a later study of analytic geometry and calculus. The system of real numbers, functions, exponential and logarithmic functions, the trigonometric functions, complex numbers. *Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.*

108. COLLEGE ALGEBRA AND TRIGONOMETRY II. The complex numbers, the theory of equations, systems of equations, permutations and combinations, the binomial theorem and probability, sequences, inverse functions and trigonometric equations. *Prerequisite: Mathematics 107. Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.*

109. PLANE ANALYTIC GEOMETRY. Elementary concepts of plane analytic geometry; the locus derivation and the straight line; introduction to curve sketching; conics, transcendental curves; polar coordinates; parametric equations. *Prerequisites: Mathematics 107, 108. Five class hours a week. Fall and Winter. Credit, five quarter hours.*

212. ANALYSIS I. (Analytic Geometry and Differential Calculus.) Designed to present an integrated approach to analytic geometry and differential calculus. Basic concepts of analytic geometry, graphs and functions, basic concepts of calculus, the derivative, applications to curve tracing, maxima and minima, velocity, acceleration, rates, differentials, approximate values. *Prerequisites: Mathematics 107 and 108. Five class hours a week. Fall. Credit, five quarter hours.*

213. ANALYSIS II. (Analytic Geometry and Integral Calculus.) Integration, the integral as limit of a sum, geometrical applications of integration, physical application, derivatives of trigonometric functions, polar coordinates, conic sections, logarithmic and exponential functions, formal integration. *Prerequisite: Mathematics 212. Five class hours a week. Winter. Credit, five quarter hours.*

214. ANALYSIS III. (Advanced Topics in Calculus.) Introduces the student to the rigor of the calculus and related topics in analysis. Vectors, the law of the mean, indeterminate forms, partial derivatives, lines and planes in space, multiple integrals, infinite series, ordinary differential equations. *Prerequisites: Mathematics 212 and 213. Five class hours a week. Spring. Credit, five quarter hours.*

217. INTRODUCTION TO PROBABILITY AND STATISTICS. The frequency distribution; central tendencies or averages; variability; the frequency curve; correlation; use of tabular and graphic methods of reporting facts; interpreting statistical data. *Five class hours a week. Spring. Credit, five quarter hours.*

306. BASIC COMPUTER PROGRAMMING. This course is designed to provide basic instruction in four areas of computing, numerical analysis, machine language, a symbolic programming system, and the "Formula Translation System." *Three class hours and two two-hour laboratory periods a week. Fall, Winter, and Spring. Credit, five quarter hours.*

307. BASIC COMPUTER CONCEPTS. Introduces the student to the operation of the 1620 computer. Review of FORTRAN language using subroutines, binary capabilities, machine practice under supervision, and instruction timing. *Three class hours and two two-hour laboratory periods a week. Fall, Winter, and Spring. Credit, five quarter hours.*

311. MATHEMATICS OF FINANCE. Consumer mathematics for prospective secondary teachers. Ratio, proportion, and percentage applied to commercial problems; compound interest and compound discount; ordinary and other types of annuities; amortization and sinking funds; valuation of bonds; mathematics of depreciation; life annuities and life insurance; income tax returns. *Five class hours a week. Fall. Credit, five quarter hours.*

315. MODERN ALGEBRA. Basic concepts (sets, ordered pairs, product and relations, functions and mapping, binary operations, abstract systems, etc.), the number systems, decompositions of integers, Diophantine problems, congruence, permutations. *Five class hours a week. Fall. Credit, five quarter hours.*

316. MODERN ALGEBRA. Designed to develop further topics in modern algebra. Group rings, domain, fields, polynomial rings, Galois theory. *Five class hours a week. Winter. Credit, five quarter hours.*

318. ADVANCED PROBABILITY. Extension of topics introduced in Mathematics 217, with applications in such fields as education, economics, and finance. Topics include study of sets, probability in finite sample spaces, random variables, binomial distribution and applications, estimating and testing variability, analysis of variance, and decision theory. *Prerequisite: Mathematics 217. Five class hours a week. Fall. Credit, five quarter hours.*

319. LINEAR ALGEBRA. (Formerly 406.) Vectors in the space and in the plane; linear dependence of vectors; vectors over the complex field; geometry of the real vector space; transformation relative to different bases; vector spaces over the complex field. *Prerequisites: Mathematics 214 and 315. Five class hours a week. Winter. Credit, five quarter hours.*

320. THEORY OF EQUATIONS. Complex numbers; elementary theorems on the roots of an equation; constructions with rulers and compasses; cubic and quadratic equations; the graph of an equation; isolation of the real roots; solution of numerical equations; determinants—systems of linear equations; symmetric functions; elimination, resultants and discriminants; fundamental theorem of algebra. *Five class hours a week. Credit, five quarter hours.*

321. INTRODUCTION TO HIGHER GEOMETRY. Designed to give a "modern view" of geometry which includes a critical study of Euclidean geometry treated from an exiomatic viewpoint as well as the study of non-Euclidean postulational systems. *Five class hours a week. Winter. Credit, five quarter hours.*

399. ARITHMETIC FOR ELEMENTARY SCHOOL TEACHERS. Designed to give the prospective teacher substantial knowledge of arithmetic, teaching aids, and practice in modern methods of teaching the subject. Terms used in arithmetic; the four fundamental operations, common and decimal fractions. *Five class hours a week. Spring. Credit, five quarter hours.*

400. MODERN MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS. Recent trends in elementary school mathematics. Emphasis on logic, critical thinking, and development of the number system. Review of the fundamentals of arithmetic; visual aids in the teaching of arithmetic. *Five class hours a week. Spring. Credit, five quarter hours.*

401. TESTING AND STATISTICAL ANALYSIS FOR TEACHERS. Designed to give teachers in all fields essential knowledge of tests, experience in administering tests, and practice in evaluating test results according to current standards. *Five class hours a week. Winter. Credit, five quarter hours.*

402. MODERN MATHEMATICS FOR SECONDARY SCHOOL TEACHERS. Modern trends in mathematics curricula, number bases, modular arithmetic, mathematical systems, empirical probability, basic definitions of sets, the use of sets in elementary algebra, the use of deductions in algebra, an introduction to abstract algebra, geometry for junior high schools, structure of a first course in geometry, number scales and perspective, topology. *Five class hours a week. Spring. Credit, five quarter hours.*

404. DIFFERENTIAL EQUATIONS. Differential equations-orders and degree; solutions of differential equations; constants of integration; verification of solutions of differential equations; differential equations of the first order and of the first degree; two special types of differential equations of higher order; linear differential equations of the second order with constant coefficients; compound interest law; applications to problems in mechanics; linear differential equations of the nth order with constant coefficients. *Prerequisites: Mathematics 212 and 213. Five class hours a week. Spring. Credit, five quarter hours.*

409. GENERAL POINT SET TOPOLOGY. Designed to introduce the concepts of point set topology. Course includes introductory set theory, the real line, topological spaces, arcs and curves, partitionable spaces, and the axiom of choice. *Five class hours a week. Spring. Credit, five quarter hours.*

410. INTRODUCTION TO REAL VARIABLE THEORY. This course is designed to provide experiences in the Theory of Dedekind cuts, the existence of g.l.b. and l.u.b. sequences of numbers and various theorems. Topics include numbers and convergence, topological preliminaries, limits, continuity and differential ability, the Riemann Integral, sequences and series, functions of several real variables. *Five class hours a week. Winter. Credit, five quarter hours.*

411. ADVANCED CALCULUS. Fundamentals (Dedekind's and Cantor's theories, Balzona-Weierstrass theorem, functions of real variable, etc), sequence, limits and metric space, continuous functions on metric spaces, Heine-Borel theorem, connectedness, compactness and completeness, differentiability and integrability. *Prerequisites: Mathematics 213 and 214. Five class hours a week. Spring. Credit, five quarter hours.*

420. HISTORY OF MATHEMATICS. Development of the science of numbers; trends in mathematics. *Five class hours a week. Fall. Credit, five quarter hours.*

498. NEWTONIAN SEMINAR. This course is designed for students who wish to participate in mathematics seminars for credit. Juniors and seniors. *Fall, Winter, and Spring. Credit, two quarter hours.*

499. MATHEMATICAL RESEARCH. This course is designed for mathematics majors who are capable of working with a minimum amount of guidance. The student reports periodically to his supervising professor, and the specific content of the course is directed by the supervising instructor. *Prerequisite: student must have earned a total of 130 quarter hours, including a minimum of thirty hours in mathematics. Fall, Winter, and Spring. Credit, one to three quarter hours.*

EARTH SCIENCE

200. PHYSICAL GEOGRAPHY. The Earth in Space, its form, the geographic grid, and map projections. Atmosphere, oceans, ocean tides, and the eclipses, climate, soils and vegetation. Temperature; latitude; Heat budget of the earth. The earth's crust and its relief forms. *Three class hours and two two-hour laboratory periods a week. Fall quarter. Credit, five quarter hours.*

221. EARTH SCIENCES. Earth as a planet; features of the globe; rocks and minerals. Natural processes acting on the earth's surface, and the resulting land forms. Includes the composition, movements and displacements of the earth's crust; and the action of streams, waves, wind, atmosphere, glaciers and volcanoes. Ocean action; geologic time and presence of isotopes; our earth's resources. Lecture three hours, lab. four hours. *Prerequisites: Advanced standing and some knowledge of physics and chemistry. (May be used to satisfy elective units in general science, general education and teacher education.) Credit, five quarter hours.*

223. ASTRONOMY AND SPACE SCIENCE. Historical development of astronomy; the tools and methods of the astronomer; the earth, the moon and the solar system. Stellar systems, galaxies and cosmology. History of space exploration, space flight and earth's environment. Space propulsion systems, life-support systems, and space applications. *Three class hours and two two-hour laboratory periods a week. Spring quarter. Credit, five quarter hours.*

300. PRINCIPLES OF GEOLOGY. Identification of rocks and minerals; geological processes such as weathering, erosion, glaciation, earthquakes, volcanoes, mountain building, etc. The earth's interior, introduction to geologic maps, and historical aspects of geology. *Lecture three hours, laboratory two two-hour periods. No prerequisite. (May be used to satisfy the elective units in general education or teacher education.) Winter quarter. Credit, five quarter hours.*

310. MINERAL RESOURCES. A study of formation of various minerals in the earth's environment and mineral deposits. Minerals in relation to soil development, nutrient availability, and topography. *Three class hours a week. Prerequisite: None. Credit, three quarter hours.*

320. INTRODUCTION TO METEOROLOGY. The atmosphere, its composition and density. Heating of land and water; air in motion and its circulation patterns. Role of atmospheric temperature, pressure and humidity distribution; fog and clouds. Thunderstorms, tornadoes and hurricanes. *Prerequisites: Physics 201-202. Three class hours and two two-hour laboratory periods a week. Fall quarter. Credit, five quarter hours.*

400. STRATIGRAPHY. Description and genesis of stratified sedimentary rock units. Relationships between the lithology and geometry of these rock units and the tectonic setting. Principles of geologic mapping. *Lecture, three hours, laboratory, four hours a week. Prerequisite: Geology 300. Credit, five quarter hours.*

404. MARINE AND ENVIRONMENTAL GEOLOGY. Geophysical techniques for exploration of the sea floor. Pelagic and Abyssal plain sediments. Igneous rocks and the structure of the ocean basins. Polar wandering and continental drift. Earth processes. Engineering properties of rocks and soils. Earth resources. Geologic consequences of industrialization. Conservation and Management. *Three class hours and two two-hour laboratory periods a week. Prerequisite: Geology 300. Fall quarter. Credit, five quarter hours.*

406. STRUCTURAL GEOLOGY. Introductory description of the structural features of rocks and their analysis. Deformation of the earth's crust during tectonic and metamorphic activity. *Two lectures and one two-hour laboratory period a week. Prerequisite: Geology 300 or equivalent. Credit, three quarter hours.*

408. GEOMORPHOLOGY. Sculpture of the earth's surface by natural processes. Weathering sequence, erosion and development of soil profile. Surficial processes and the evolution of land forms. *Two class hours and one two-hour laboratory period a week. Prerequisites: Geology 300 and Geology 406. Credit, three quarter hours.*

410. PETROLOGY AND PETROGRAPHY. Composition, distribution and origin of rocks. Laboratory examination of common igneous, metamorphic and sedimentary rocks; use of petrographic microscope, study of metamorphic zoning, and physical and mineralogical analysis of sediments. *Lecture three hours, laboratory two two-hour periods. Prerequisite: Geology 300. Credit, five quarter hours.*

420. WEATHER AND CLIMATE. Why winds blow. Moisture in the atmosphere. Radiation; stability. Winds and pressure. The general circulation. Weather maps. Extratropical cyclones and waves. Interrelationships among the physical processes of weather. Weather and man. Climatic change. *Prerequisite: Introduction to Meteorology 320. Three class hours and two two-hour laboratory periods a week. Fall quarter. Credit, five quarter hours.*

425. INTERACTIONS OF GLOBAL ENVIRONMENT. Man's activities affecting the equilibrium of atmosphere, hydrosphere, biosphere, and lithosphere. Discussion of natural cycles such as the energy cycle; the water cycle; the carbon cycle; the oxygen cycle; the nitrogen cycle and the phosphorus cycle. Preservation of man's healthy environment. *Prerequisites: Chemistry 101-102 and Geology 300 or equivalent. Three class hours and one two-hour laboratory period a week. Credit, four quarter hours.*

430. INTRODUCTION TO GEOPHYSICS. Origin of the earth and solar system. Earth's interior and its physical parameters. Geochronology. Heat flow, seismicity, gravity field, magnetic field and paleomagnetism. Physics of the upper atmosphere. Continental drift. *Prerequisites: Geology 300 and Physics 201-202. Three lectures and one two-hour laboratory period. Credit, four quarter hours.*

440. INTRODUCTION TO GEOCHEMISTRY. Chemical principles of geological processes. Origin and distribution of chemical elements and isotopes in the earth, its waters and atmosphere. Age of the earth and crustal evolution. Phase transformations at pressures and temperatures found in the earth's interior and the surface. *Lecture three hours and laboratory one two-hour period. Prerequisites: Chemistry 101-102, Geology 300 and junior or senior standing. Credit, four quarter hours.*

490a-490b. SPECIAL PROBLEMS IN EARTH SCIENCES. Study of literature, laboratory or field investigation of a selected topic and presentation of a written report or in the form of a seminar. *Prerequisite: Junior or senior standing. Credit, one quarter hour each.*

499. RESEARCH IN EARTH SCIENCES. Laboratory and field investigation of a selected research problem and preparation of a written report. *Prerequisite: Junior or senior standing. Credit, two quarter hours.*

PHYSICAL SCIENCE

203. PHYSICAL SCIENCE. A concise course for students who elect two courses in biological science and one course in physical science to satisfy the general science requirement for graduation. *Three class hours and two two-hour laboratory periods a week. Credit, five quarter hours.*

PHYSICS

201. GENERAL PHYSICS. An introduction to mechanics and heat. Emphasis is placed upon concepts and the methods used by physicists to understand and correlate physical processes. Students enrolled in this course should have command of algebra and trigonometry. *Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

202. GENERAL PHYSICS. Wave phenomena as sound and light are investigated. Prerequisite: Physics 201. *Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

203. GENERAL PHYSICS. Magnetism, electricity, and some aspects of modern physics (atomistics) are covered. Prerequisite: Physics 202. *Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

306. ADVANCED MECHANICS AND HEAT*. Prerequisites: Mathematics 212, 213. *Two class hours and two two-hour laboratory periods a week. Fall. Credit, four quarter hours.*

307. ILLUMINATION AND OPTICS*. Prerequisites: Mathematics 212, 213. *Two class hours and two two-hour laboratory periods a week. Winter. Credit, four quarter hours.*

308. MAGNETIC AND ELECTRICAL MEASUREMENTS*. Prerequisites: Mathematics 212, 213. *Two class hours and two two-hour laboratory periods a week. Spring. Credit, four quarter hours.*

310. MATHEMATICAL PHYSICS. (Formerly Physics 300.) Designed to develop an understanding of the concrete relationship between those factors that contribute to various particular phenomena; qualitative and quantitative relationships. Prerequisites: Mathematics 212, 213, 404. *Five class hours a week. Credit, five quarter hours.*

312. INTRODUCTION TO ELECTRONICS. Testing basic components of electronic circuits—tubes, transistors, relays, capacitors, inductors, transformers, microphones, etc.; constructing and testing radio receivers, transmitters, amplifiers, power supplies, and control apparatus; work with vacuum tube voltmeters, frequency generators, oscilloscopes tube testers, field strength meters, etc. *Two class hours and two (or three) two-hour laboratory periods a week. Credit, four (or five) quarter hours.*

410. MODERN PHYSICS. Recent advances in atomic and nuclear physics. Prerequisites: Calculus, six to ten quarter hours; advanced physics, four or more quarter hours, and Mathematics 212, 213. *Four class hours a week. Fall. Credit, four quarter hours.*

DIVISION OF NAVAL SCIENCE

VIRGIL V. McGEE, CMDR., USNR, *Head*

Ralph N. Churchwell, LCDR, USN
David O. Dinwiddie, Lt. USN
Oswald L. Mikell, Lt. USN
Ollie V. Buckner, LTJG, USNR
Fred L. Jones, Capt., USMC
Johnny L. Morris, SSgt, USMC

The Naval Reserve Officers Training Corps instructional program consists of three parts: the college major, Navy specified college courses, and Navy professional courses.

There is a requirement for completion of course work leading to a baccalaureate degree in a major field offered by the college.

Navy specified courses are in two categories, i.e., those that are normally taught by the college faculties and Navy professional subjects taught by Naval or Marine Officers.

MAJOR GOALS

The major goals of the NROTC Program are:

(1) To assist in the education of the midshipman in a major field of study of interest to the Navy or Marine Corps leading to a baccalaureate degree.

(2) To provide the midshipman with the fundamental concepts and principles of Naval Science and with the professional Naval knowledge necessary to establish a sound basis for his future growth as a Naval or Marine Corps Officer.

(3) To prepare the midshipman for service with the highest sense of honor and integrity as a commissioned officer; to cultivate the essential elements of military leadership; and to foster the growth of a strong sense of loyalty and dedication to his service and to the Nation.

(4) To prepare the midshipman to undertake successfully in later periods of his career, advanced/continuing education in a field of application and interest to the Naval Service.

(5) To inject the values of civilian higher education into the Naval Service by utilizing the expertise of civilian faculty instruction where applicable.

REQUIRED COURSES OF STUDY

In addition to the Naval Science Curriculum, that is, those courses taught by Naval or Marine Officers, the following courses are required:

All courses required by the midshipman's major field of study, plus:

	Quarter Hours
HIS 201	5
POL SCI 201	5
BA 301 or MATH 306	5
*MATH 212-213	10
*PHY 201-202-203	15

MIDSHIPMEN CURRICULUM SEQUENCE

All Midshipmen

FRESHMAN YEAR

EDN 100	Freshman Lectures	R		
HUM 107-108-109	English Communicative Skills	5	5	5
MATH 107-108	College Algebra & Trig	5	5	
POL SCI 200	Government			5
NS 101-102-103	Drill/Seminar	R	R	R

Required major courses

Note: *Required for Navy Option Scholarship Midshipmen only

SOPHOMORE YEAR

HUM 132	Intro/Music, Art & Lit.			5
HIS 300	History of U.S. & Ga.	5		
POL SCI 201	National Security Policy		5	
HIST 201	American Military Affairs			5
NS 201	Ship Systems	5		
NS 202-203-204	Drill	R	R	R
(one of the following series)				
PHY 201-202		5	5	
CHEM 101-102				
BIO 123-124				
GEO 221-300				
*MATH 212-213	Analysis I-II	5	5	
*PHY 201-202-203	General Physics	5	5	5
Required major courses				

*Note: Required for Navy Option Scholarship Midshipmen only

NAVY OPTION

JUNIOR YEAR

NS 301	Navigation I	4		
NS 302	Navigation II		4	
NS 303	Naval Operations			3
NS 304-305-306	Drill	R	R	R
Required major courses				

SENIOR YEAR

NS 401	Naval Organization/Management	5		
NS 402-403-404	Drill/Seminar	R	R	R
Required major courses				

NOTE: Those students who choose the Marine Option Program will take the following courses during their last two years in lieu of the Navy sequence.

MARINE OPTION

JUNIOR YEAR

NS 301	Drill/Seminar	R	R	R
NS 311	Evolution of Warfare I	3		
NS 312	Evolution of Warfare II		3	
Required major courses.				

SENIOR YEAR

NS 401	Drill/Seminar	R	R	R
NS 411	Amphibious Warfare I	3		
NS 412	Amphibious Warfare II		3	
Required major courses				

DESCRIPTION OF COURSES

101-102-103. Close order military drill and seminars dealing with the concept of modern seapower and topics relating to maritime affairs which directly affect the Navy. *One class hour per week and one drill period per week. Fall, Winter, Spring Quarters. NO CREDIT.*

201. SHIP SYSTEMS. An introduction to the problems of ship design and construction, the elements of stability and damage control, the different means of modern ship propulsion including nuclear propulsion and a study of the auxiliary systems, electrical systems, and weapons systems necessary for the operation of a ship. *Five class hours per week. Fall and Winter Quarters. Credit, five quarter hours each quarter.*

NS 202-203-204. Close order military drill. *One drill period per week. Fall, Winter, Spring Quarters. NO CREDIT.*

301-302. NAVIGATION. An introduction to piloting designed to convey the development of both the art and science of coastal navigation. Goals are to introduce and develop the methodology for the determination of accurate positioning, to survey the sundry instruments and navigational aids; to introduce the factors that influence the variance from the theoretical position to the actual position. To introduce the concept of relative motion and station keeping; to impart an understanding of the significance of the Rules of the Nautical Road with relation to safe navigation and international agreements. To show the relationship of the celestial sphere and nautical astronomy to the terrestrial system of coordinates, thereby contributing to position determination on the Earth. *Three class hours and one lab hour each week. Fall and Winter Quarters. Credit, four quarter hours each quarter. NS 301 is a prerequisite for NS 302.*

303. NAVAL OPERATIONS. The principles essential for a fundamental understanding and a practical working capability in both safe navigation and decision making are investigated. The course is comprised of a detailed practical analysis of relative motion, the rudimentary theory of advanced electronic navigation systems, and an application of operations analysis for decision making. *Three class hours per week. Spring Quarter. Credit, three quarter hours.*

304. Close Order military drill. *One drill period per week. Fall, Winter, Spring Quarters. NO CREDIT.*

311-312. EVOLUTION OF WARFARE. Basic terms applicable to warfare are defined. Significant periods of conflict, extending from the ancient Near East to the present are studied. In exploring these eras, the technology of time, strategic alternatives, tactical innovations, naval activities, geographical factors and evolution of weaponry are examined. The techniques and effectiveness of the military leaders during the period are also studied. *Three class hours per week. Fall and Winter Quarters. Credit, three quarter hours each quarter. MARINE OPTION.*

401. PRINCIPLES OF NAVAL ORGANIZATION AND MANAGEMENT. An introduction to the structure and principles of naval organization and management. Naval organization and management practices and the concepts that lie behind them are examined within the context of American social and industrial organization and practice. It includes lines of command and control,

organization for logistics, service and support, functions and services of major components of the Navy and Marine Corps, and shipboard organization. Emphasis is placed on management and leadership functions. *Five class hours per week. Fall and Winter Quarters. Credit, five quarter hours.*

402, 403, 404. Close order military drill and seminars with emphasis placed on the practical aspect of a junior officer's function in leadership and management by discussing the daily, weekly, and monthly activities of the junior officer in relation to the division, the command, and the fleet. The course is divided into two phases; the first considers the functions and problems which are common to all junior officers while during the second phase midshipmen are segmented according to service selection, i.e., aviation, surface, sub-surface, Marine Corps, with instruction directed to the problems and specific responsibilities of these specialty areas. *One drill period per week. One class hour per week. Fall, Winter and Spring Quarters. NO CREDIT.*

411-412. AMPHIBIOUS WARFARE. The objectives of amphibious expeditions during the 18th and 19th centuries are discussed. Gallipoli, the prime amphibious operation of World War I is studied in detail. Lessons learned during WWI and the evolution of amphibious doctrine during the 1920's and 1930's are covered. The application of these concepts is evaluated by studying major landings in the Pacific and European theaters of WWII. The continuous development of equipment and doctrine is traced to the present. Current military-staff planning policy, control techniques and coordination procedures for amphibious operations are studied. *Three class hours per week. One hour of drill in the fall quarter. Fall and Winter quarters. Credit, three quarter hours each quarter. MARINE OPTION.*

DIVISION OF SOCIAL SCIENCES

ELMER J. DEAN, *Chairman*

Blanton E. Black
Annette K. Brock
Thomas H. Byers
Gaye H. Hewitt
Otis S. Johnson
Isaiah McIver
Delacy W. Sanford
John E. Simpson
Merolyn Stewart
Kathleen Sullivan
Hanes Walton, Jr.
Eugene E. Welch
Elson K. Williams
Willie T. Yancey, Jr.

Good citizenship is the supreme goal of the social sciences. To be able citizens, students should have knowledge of human and cultural backgrounds and relationships. This essential knowledge comes through study of history, economics, sociology, political science, and other social sciences.

The Division of Social Sciences contributes to the realization of good citizenship by fostering three aims of higher education: (1) assisting students to attain those competencies and attitudes essential to all persons in a world of interdependent relationships; (2) preparing students for advanced study in fields such as social work, sociology, history, political science, and criminal justice; and (3) preparing students for teaching the social studies in the secondary school.

THE CHOICE OF A MAJOR

In conformance with the foregoing aims this division provides three curricula. Curriculum One leads to the B.S. Degree in the social sciences with a concentration in history. Curriculum Two leads to the B.S. Degree with a concentration in sociology; Curriculum Three leads to the B.S. Degree in Criminal Justice.

The program for persons who plan to teach social studies in the secondary school is listed under caption of the Department of Secondary Education.

The curricula of this division are designed for those who definitely do not wish to qualify for a certificate to teach in the secondary school. Persons interested in careers in law, government service, diplomatic service, and research in general, should choose Curriculum I. Persons interested in careers as social workers, probation officers, vocational counselors, camp counselors, employment interviewers, juvenile court workers, and officials in the immigration service, should choose Curriculum II. Persons interested in careers in general law enforcement, and/or security, should choose Curriculum III.

This division discourages substitution for the required courses in the concentration. When such approval is granted, it must be reviewed and approved by the Dean of Faculty before becoming effective.

CURRICULUM I:

B.S. Degree
With Concentration in History

FRESHMAN YEAR

Descriptive Title	*Course & No.*	*Quarter Hours Credit* Fall	Winter	Spring
BIO 123-124	General Biology	5	5	
ED 100	Freshman Lectures	(R)		
HUM 107-108-109	English Communicative Skills	5	5	5
HUM 131	Introduction to Music and Art			5
P ED 111, 113	Seasonal Activities	1	1	
SOC SC 101-102	History of Western Culture	5	5	
SOC SC 111	World and Human Geography			5
		16	16	15

SOPHOMORE YEAR

HUM 141-142-143 or	Elementary French	5	5	5
HUM 151-152-153 or	Elementary German			
HUM 161-162-163	Elementary Spanish			
HUM 207-208-209	World Literature	3	3	3
MATH 107	College Algebra & Trigonometry	5		
NAT SC 203	Physical Science			5
P ED 211-212-213	Seasonal Activities	1	1	1
SOC SC 201	Psychological Basis for Human Behavior		5	
POL SC 200	Government			5
		14	14	19

JUNIOR YEAR

EC 201	Principles of Economics	5		
HIST 301-302-303	History of the United States	5	5	5
HIST 331-332	History of Europe		5	5
SOC 201	Introduction to Sociology	5		
(Minor Field)			5	5
		15	15	15

SENIOR YEAR

HIST 408	History of Russia since 1815	5		
HIST 409	Negro History	5		
HIST 415	History of the Far East			5
HIST 416	Introduction to Historical Seminar			5
Electives		5	5	
(Minor Field)		5	10	5
		20	15	15

Total quarter hours required for graduation 189

CURRICULUM II:

B.S. Degree
With Concentration in Sociology

(Freshman and sophomore courses are the same as in Social Sciences Curriculum.)

JUNIOR AND SENIOR REQUIREMENTS

JUNIOR YEAR

Descriptive Title	*Course & No.*	*Quarter Hours Credit* Fall	Winter	Spring
EC 201	Principles of Economics	5		
HIST 301-302-303	History of the United States	5	5	5
SOC 201	Introduction to Sociology	5		
SOC 305	The Family			5
(Minor Field)			10	5
		15	15	15

SENIOR YEAR

SOC 203	Modern Social Problems	5		
SOC 302	Criminology I		5	
SOC 454	History of Social Thought		5	
SOC 455	Introduction to Social Work	5		
SOC 308	Techniques of Sociological Research			5
Electives		5		5
(Minor Field)		5	5	5
		20	15	15

Total quarter hours required for graduation 189

CURRICULUM III:
B.S. Degree in Criminal Justice

FRESHMAN YEAR

Descriptive Title	*Course & No.*	*Quarter Hours Credit* Fall	Winter	Spring
HUM 107-108-109	English Communicative Skills	5	5	5
BIO 125	General Biology	5		
ED 100	Freshman Lectures	(R)		
SOC SC 102	History of Western Culture		5	
P ED 111-113	Seasonal Activities	1		1
HUM 131	Introduction to Music and Art			5
MATH 107	College Algebra & Trigonometry			5
SOC 201	Introduction to Sociology	5		
Elective			5	
		16	15	16

SOPHOMORE YEAR

HUM 207-208-209	World Literature	3	3	3
P ED 211-212-213	Seasonal Activities	1	1	1
CJ 200	Introduction to Criminal Justice	5		
CJ 201	Law Enforcement I			5
SOC 203	Modern Social Problems	5		
NAT SC 203	Physical Science			5
SOC SC 201	Psychological Basis for Human Behavior		5	
POL SC 200	Government		5	
POL SC 311	American Constitutional Law			5
		14	14	19

JUNIOR YEAR

CJ 300	Judicial Processes	5		
HIST 303	History of U.S. since 1900			5
Minor		5	5	5
SOC 302	Criminology I		5	
SOC 306	Race, Poverty and the Law	5		
SOC 307	Introduction to Group Dynamics		5	
SOC 308	Techniques of Sociological Research			5
		15	15	15

SENIOR YEAR

CJ 400	Juvenile Delinquency		5	
CJ 401	Criminology II	5		
CJ 403	Corrections, Probation, and Parole		5	
CJ 404	Law Enforcement II	5		
CJ 405	Seminar in Criminal Justice			5
Minor		5	5	5
Elective				5
		15	15	15

Total quarter hours required for graduation 184

MINORS IN SOCIAL SCIENCES

The Division of Social Sciences offers also the following minor sequences:

Minor in Sociology

	Quarter Hours
SOC 201	5
SOC 203	5
SOC 302	5
SOC 305	5
SOC 308	5
SOC 454	5
	30

Minor in History

	Quarter Hours
HIST 301-302-303	15
HIST 331-332	10
HIST 408 or 415	5
	30

Minor in Black Studies[1]

	Quarter Hours
HIST 308	5
HIST 309	3
HIST 310	5
HIST 311	5
HIST 312	3
HIST 410	5
HIST 411	5
ECON 404	5
ART 250	3
ENG 315	3
ENG 317	3
SOC 401	3
POL SC 462	5
	30

Minor in Political Science

	Quarter Hours
POL SC 200	5
POL SC 303	5
POL SC 304	5
POL SC 310	5
POL SC 403	5
POL SC 405	5
	30

[1]This is an interdisciplinary minor that may be completed by taking at least thirty hours of course work from among the courses listed.

Minor in Criminal Justice

Course No.	*Descriptive Title*	*Credit Hrs.*
SOC 302 or CJ 200	Criminology I Intro to Criminal Justice and Law Enforcement	5
*CJ 201	Law Enforcement I	5
*CJ 300	Judicial Processes	5
*SOC 306	Race, Poverty, and the Law	5
°CJ 400 or °CJ 403	Juvenile Delinquency Corrections, Probation and Parole	5
°CJ 404 or †CJ 410	Law Enforcement II Seminar in Criminal Justice	5
°CJ 401	Criminology II	
		30

*Required Courses.
†For seniors in C.J. only
°For seniors only

DESCRIPTION OF COURSES

SOCIAL SCIENCES

101. HISTORY OF WESTERN CULTURE. Study of oriental and classical backgrounds; medieval feudalism; the rise and influence of Christianity; Saracen civilization; transition to modern modes of life; Renaissance and Reformation to 1600. *Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.*

102. HISTORY OF WESTERN CULTURE. From 1600 to the present. Religious wars; the rise of national states; commercial, industrial, scientific, and intellectual revolutions; extension of democracy and world organizations. Special consideration is given to the communist versus the democratic way of life. *Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.*

111. WORLD AND HUMAN GEOGRAPHY. Man's relationship to his natural, physical and cultural environment; world patterns of population, climate, and industrial development; problems of agriculture, commerce, trade, transportation, and communication; conservation of natural resources. *Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.*

201. PSYCHOLOGICAL BASIS FOR HUMAN BEHAVIOR. Introduces the student to psychology as the science which studies the behavior and experience of living organisms, and specifically human behavior and experience. *Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.*

420. DEMOCRACY VERSUS COMMUNISM. A background of Russian history to the Revolution of 1917; political, economic, social, and geographic factors which have played a part in the historical development of communism in the USSR and democracy in the United States. *Five class hours a week. Spring. Credit, five quarter hours.*

HISTORY

201. HISTORY OF AMERICAN MILITARY AFFAIRS. This course is an introductory survey of military affairs in the United States from the Revolution to the present. Its major purpose is to acquaint the student with the American military experience, to emphasize the problems involved in waging war, and to examine the effects of waging war on the society that wages it. *Five class hours a week. Credit, five quarter hours.*

300. THE ESSENTIAL DEVELOPMENTS IN THE HISTORY OF THE UNITED STATES AND IN THE HISTORY OF GEORGIA. Designed to acquaint the student with the institutions and traditions of the United States, from the colonial period to the present, and with corollary developments in the history of Georgia. This course satisfies that phase of the Georgia Code which requires instruction in the history of the United States and Georgia. The Constitution phase of the law may be met through satisfactory completion of Political Science 200. *Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.*

301. HISTORY OF THE UNITED STATES THROUGH THE JACKSONIAN PERIOD. Beginning with a brief reference to the European background of American culture, major events and developments of the United States from 1492 through the Jacksonian Period are discussed. *Five class hours a week. Fall. Credit, five quarter hours.*

302. HISTORY OF THE UNITED STATES FROM THE JACKSONIAN PERIOD TO 1900. Beginning with the conclusion of the Jacksonian Period, major political, social, and international developments and problems of the United States to 1900 are analyzed. *Five class hours a week. Winter. Credit, five quarter hours.*

303. HISTORY OF THE UNITED STATES SINCE 1900. An analysis of political, social, and international developments of the United States since 1900. Special emphasis is given to recent events. *Five class hours a week. Spring. Credit, five quarter hours.*

308. NEGRO HISTORY. Designed to acquaint the student with the African background of the American Negro. Emphasizes the life and history of the Negro in the United States. *Five class hours a week. Credit, five quarter hours.*

309. THE AFRICAN AND LATIN AMERICAN BACKGROUND. This course seeks to develop an awareness and appreciation of the Afro-American African and Latin American background and experiences. Beginning with the African background, the course examines the Afro-American's African past and seeks to integrate that past with his experiences in Latin America. *Three quarter hours.*

310. THE AFRO-AMERICAN FROM 1619 TO 1860. As a continuation of History 309, this course begins with the introduction of Africans into the American colonies; analyzes the evolution and maintenance of the slave system, evaluates Afro-American accommodation, resistance, rebellion, quest for freedom; analyzes the abolition movement, black and white attitudes, institutions and values up to the election of Lincoln. *Five quarter hours.*

311. THE AFRO-AMERICAN FROM 1861 TO 1900. A continuation of History 310, this course emphasizes the impact of the War on Afro-Americans, the life as soldiers, their treatment by Confederate and Union forces, Lincoln's colonization and emancipation plans, Reconstruction, white reaction, and Populist alliances. *Five quarter hours.*

312. THE AFRO-AMERICAN IN THE 20th CENTURY. Major emphasis is placed on the Modern Afro-American experiences such as Afro-American participation in the World Wars, the depression, and the struggles for civil rights, identity, and self-determination. *Three quarter hours.*

331. HISTORY OF EUROPE FROM THE MIDDLE AGES TO 1815. The Renaissance and the Reformation through the Napoleonic Period. The Revival of Learning; the development of art; discovery and exploration. The beginnings of Protestantism, Catholic Counter Reformation. Assigned reading. *Prerequisite: Social Science 101. Five class hours a week. Winter. Credit, five quarter hours.*

332. HISTORY OF EUROPE FROM 1815 TO THE PRESENT. A detailed study of political, social, and economic developments in the principal countries of Western Europe from the Congress of Vienna to the present. *Prerequisite: Social Science 102. Five class hours a week. Spring. Credit, five quarter hours.*

341-342. STUDIES IN AFRICAN CIVILIZATION. Designed to develop greater appreciation of the African backgrounds of Black Americans, this course treats the geography, history, politics, economics, religion, and arts of certain African nations. The course includes lectures and group reports. *Five credit hours.*

343. STUDIES IN AFRICAN CIVILIZATION. This course is a field trip to one or more African nations or to a nation or nations of African ancestry or influence. *Summer quarter. Five credit hours.*

408. HISTORY OF RUSSIA SINCE 1815. An examination of the major economic and political developments in addition to the various reform movements of Tsarist Russia. Emphasis is placed on the October Revolution and its aftermath. *Prerequisites: History 331 and 332 or consent of the instructor. Five class hours a week. Fall. Credit, five quarter hours.*

409. THE HISTORY OF LATIN AMERICA. An appraisal from both an historical and a contemporary viewpoint of the political, intellectual, social, and economic development of Latin America and its relations with the United States. *Prerequisites: History 301, 302 and 303. Five class hours a week. Fall. Credit, five quarter hours.*

410. HISTORY OF AFRICAN THOUGHT. An examination of traditional and contemporaneous African educational, political, social economic, and cultural thought. *Prerequisite: History 308. Five quarter hours.*

411. HISTORY OF AFRO-AMERICAN THOUGHT. This course is designed to deal primarily with the ideas, institutional practices, values, and ideologies embraced by Afro-Americans historically and contemporaneously. It incorporates the philosophy and tactics of accommodation, integration, and separation. *Prerequisites: History 308 and 410. Five quarter hours.*

414. HISTORY OF ENGLAND SINCE THE INDUSTRIAL REVOLUTION. An examination of the Industrial Revolution and the various economic political, and social developments and reforms that were its aftermath. Emphasis is placed on Great Britain and the Empire since World War I. *Prerequisites: History 331 and 332 or consent of the instructor. Five class hours a week. Fall. Credit, five quarter hours.*

415. HISTORY OF THE FAR EAST. An introduction to the civilization and culture of the Far East with special attention to the roles of China, Japan, and India in world affairs during the last century. *Prerequisites: History 301, 302, 303, 331, and 332. Five class hours a week. Spring. Credit, five quarter hours.*

416. INTRODUCTION TO HISTORICAL SEMINAR. Analysis of the sources, and critical methods in evaluating, organizing, and using such materials. Attention to selected outstanding historians and distinctive types of historical writing. *Prerequisites: History 301, 302, 303, 331, 408 or 410. Five class hours a week. Spring. Credit, five quarter hours.*

SOCIOLOGY

201. INTRODUCTION TO SOCIOLOGY. An analysis of the development of human group life; structure of the social environmental and its influence upon the individual's behavior. *Five class hours a week. Fall. Credit, five quarter hours.*

203. MODERN SOCIAL PROBLEMS.* Analysis of the causes of poverty, disease, crime, family disintegration, and personality maladjustments; preventive measures for human problems. *Prerequisite: Sociology 201. Five class hours a week. Fall. Credit, five quarter hours.*

302. CRIMINOLOGY I.* The sociological approach to crime. An investigation of the causes, nature, and extent of crime and the policies used in dealing with crime and the criminal. *Prerequisites: Sociology 201, 203. Five class hours a week. Winter. Credit, five quarter hours.*

305. THE FAMILY. The role of the family in the development of the individual, current psychological, economic, social, educational, and ethical problems of marriage and family life. *Prerequisite: Sociology 201. Five class hours a week. Spring. Credit, five quarter hours.*

306. RACE, POVERTY AND THE LAW. This course will explore the scope and nature of the law applicable to the poor. Moreover, it will emphasize the relationship of poverty and race to crime and the special needs that legal services can render to make more efficacious justice in America. *Prerequisites: Sociology 201, 203, 302. Five class hours a week. Fall. Credit, five quarter hours.*

307. INTRODUCTION TO GROUP DYNAMICS. Study of social group formation, the interdependent psychological relationships of group members, and trends in reciprocity between attitudes, values, and norms towards the attainment of group consciousness and cohesiveness; emphasis is focused on intragroup consciousness and intergroup conflict involving social action and counter action. *Prerequisite: Sociology 201. Five class hours a week. Winter. Credit, five quarter hours.*

308. TECHNIQUES OF SOCIOLOGICAL RESEARCH. Techniques used in social research; case study, historical, logical, ecological, and statistical, their application to social data. *Prerequisites: Sociology 201, 203. Five class hours a week. Spring. Credit, five quarter hours.*

454. HISTORY OF SOCIAL THOUGHT.* A consideration of the development of sociological theories from classical to modern times, with special emphasis on recent and contemporary theories in Europe and America. *Prerequisites: Sociology 201, 203. Five class hours a week. Winter. Credit, five quarter hours.*

455. INTRODUCTION TO SOCIAL WORK. An orientation course dealing with case work, group work, social services, social welfare, correctional services, and social welfare planning. *Prerequisites: Sociology 201, 203 and 305. Five class hours a week. Fall. Credit, five quarter hours.*

459. CULTURAL ANTHROPOLOGY. Antropological theories and their application to principles and techniques used in the comparative study of culture, including a survey of human development, and contemporary aboriginal culture. *Prerequisite: Sociology 201. Five class hours a week. Spring. Credit, five quarter hours.*

460. SOCIOLOGICAL PERSPECTIVES ON BLACK EXPERIENCE IN THE UNITED STATES. Study of historic and current trends in selected sociological frames of reference of experiences encountered by black people in the United States, emphasizing social movement and social change, urban and institutional processes, social values and personality formation. *Five class hours a week. Fall. Credit, five quarter hours.*

*Enrollment restricted to juniors and seniors

461. THE SOCIOLOGY OF BLACK CULTURE. Study of the "ways" and "whys" of black behavior and the contributions of black people to the "progress" of mankind, emphasizing historic and current cultural developments in Africa, South America, and the United States. *Five class hours a week. Winter. Credit, five quarter hours.*

462. THE BLACK MAN IN THE THIRD WORLD. Study of social, political, and economic problems and processes in which black people are involved in "the third world" with attention focused on Africa, South America, and the United States. *Five class hours a week. Spring. Credit, five quarter hours.*

CRIMINAL JUSTICE

100. INTRODUCTION TO CRIMINAL JUSTICE. This course deals with a systematic study of the agencies involved in the process of criminal justice. Required of all criminal justice majors. *Five class hours a week. Fall. Credit, five quarter hours.*

101. LAW ENFORCEMENT I. An introduction to the philosophical and historical background and the role of law enforcement in the field of criminal justice. *Prerequisite: Criminal Justice 200. Five class hours a week. Spring. Credit, five quarter hours.*

300. JUDICIAL PROCESS. Courts as political subsystems in comparative perspective. Judicial decision-making and the development of public policy through the judicial process. *Prerequisite: Criminal Justice 201. Five class hours a week. Fall. Credit, five quarter hours.*

302. CRIMINALISTICS. An introduction to the problems and techniques of scientific criminal investigation. Emphasis will be placed on familiarizing the student with the role of science and technology in modern law enforcement. *Prerequisites: Criminal Justice 200, 300. Five class hours a week. Spring. Credit, five quarter hours.*

400. JUVENILE DELINQUENCY. A survey of theories of juvenile delinquency, the sociological, biological and psychological factors involved in juvenile delinquency and the modern trends in prevention and treatment. *Prerequisite: Criminal Justice 200. Five class hours a week. Winter. Credit, five quarter hours.*

401. CRIMINOLOGY II. A continuation of basic criminology with an emphasis on such topics as organized crime, white collar crime, drugs and criminality of women. *Prerequisites: Criminal Justice 200; Sociology 201, 302. Five class hours a week. Fall. Credit, five quarter hours.*

402. CRIMINAL LAW II. Problems will be drawn from the procedural aspects of constitutional law and explored in the context of the current friction between the values of order and individual liberty. *Prerequisites: Criminal Justice 101, 201. Five class hours a week. Spring. Credit, five quarter hours.*

403. CORRECTIONS, PROBATION AND PAROLE. Principles, institutions and practices of corrections, probation and parole. *Prerequisites: Criminal Justice 200, 201, 300. Five class hours a week. Winter. Credit, five quarter hours.*

404. LAW ENFORCEMENT II. An intensive study of problems such as abortion, homosexuality, suicide, drug addiction and capital punishment. *Prerequisites: Criminal Justice 200 and 201. Five class hours a week. Fall. Credit, five quarter hours.*

405. SEMINAR IN CRIMINAL JUSTICE. An intensive study into selected topics relative to the concept of criminal justice. *Prerequisites: Criminal Justice 200, 201, 300, 400, 401, 402, 403, 404 or the consent of the instructor. Five class hours a week. Spring. Credit, five quarter hours.*

408. DIRECTED RESEARCH IN CRIMINAL JUSTICE. A course designed to provide qualified students the opportunity to perform suitable and meaningful research into some area of criminal justice under the director of the instructor. Open only by invitation of the instructor. *Prerequisites: Criminal Justice 200, 201, 300, 400, 401, 402, 403, 404.*

POLITICAL SCIENCE

200. GOVERNMENT. Provides a general understanding of the concepts, functions, and operations of government (international, national, state, and local), and a basis for development of desirable attitudes, critical thinking, and intelligent participation in political affairs. *Five class hours a week. Fall, Winter, and Spring. Credit, five quarter hours.*

201. NATIONAL SECURITY POLICY. Deals with the formulation and implementation of American security policy. American military history is analyzed briefly to determine the factors bearing on the development of the defense structure of the United States. The method formulation of national security policy is studied, as is the role of each governmental component concerned with security affairs. The elements national power are reviewed. *Five class hours per week. Credit, five quarter hours.*

303. INTERNATIONAL POLITICS. It is a survey study of the basic factors which motivate international relations, including power politics, ideology, and nationalism. It is concerned with: the causes of war, the international organization, world government, and diplomacy. Special emphasis is placed on case studies, independent study, reading, research, and writing. *Prerequisite: Political Science 200 or special permission. Five class hours a week. Spring. Credit, five quarter hours.*

304. COMPARATIVE GOVERNMENT AND POLITICS. This course stresses the institutional, political, and cultural differences and similarities between various countries and blocs of countries. Special emphasis is placed on various case studies in Western Europe, the Soviet Bloc, and the developing areas of Latin America, Africa, and Asia. Independent study, readings, research and writing are stressed. *Prerequisites: Political Science 200 and 303 or special permission. Five class hours a week. Winter. Credit, five quarter hours.*

310. STATE GOVERNMENT. A survey of the nature, organization, and problems of the state and local government and administration in the United States. *Five class hours a week. Fall. Credit, five quarter hours.*

311. AMERICAN CONSTITUTIONAL LAW. The evolution of American Courts; the development and application of American Constitutional Law, as interpreted in the leading decisions of the Supreme Court. Included are citizenship, the war powers, taxation, the commerce power, the impairment of contracts, due process of law, the civil liberties of individuals and groups, and the equal protection of the law. Recent trends in constitutional doctrine. *Prerequisite: Political Science 200. Five class hours a week. Spring. Credit, five quarter hours.*

390. BLACK POLITICS. This course is designed primarily to deal with the Black man in the American political arena. It deals with Blacks as actors in the political system rather than being acted upon. Such topics as Black Political Parties, Black Pressure Groups, The Black Electorate, Black Public Officials, and Public Policy will be discussed. *Prerequisite: Political Science 200. Open to juniors and seniors.*

403. POLITICAL THEORY. This course describes and analyzes significant theories and ideas underlying past and contemporary political systems. Leading topics of study and discussion are the influence upon political theory of Greek thought, the Roman doctrine of natural law, the church and state in the Middle Ages, and Machiavelli and the rise of the modern state. *Prerequisites: Social Science 101 and 102 or special permission. Five class hours a week. Fall. Credit, five quarter hours.*

404. POLITICAL THEORY. A continuation of Political Science 403. It emphasizes also the nature of liberalism, individualism, conservatism, state welfarism, fascism, national socialism, and communism. Abstract and philosophical thinking on the part of the student is stressed. *Prerequisite: Political Science 403. Five class hours a week. Winter. Credit, five quarter hours.*

405. THE AMERICAN POLITICAL PROCESS. This is an inquiry into the functioning of the American political system, and the theories behind it. Stress is placed on federalism, political parties and pressure groups and their relationship to the federal structure, and the causes of political behavior in American life. Independent study, readings, research, and writing, are stressed. *Prerequisite: Political Science 200 or special permission. Five class hours a week. Winter. Credit, five quarter hours.*

DIVISION OF TECHNICAL SCIENCES

CLYDE W. HALL, *Chairman*

ORGANIZATION AND DEGREE PROGRAMS

The Division of Technical Sciences comprises instructional programs in engineering technology, home economics, and industrial teacher education. Instructional activities are organized within the Department of Engineering Technology and the Department of Home Economics. The former offers courses leading to the degree of Bachelor of Science, with majors in Civil Engineering Technology, Electronics Engineering Technology, and Mechanical Engineering Technology. The latter offers courses leading to the degree of Bachelor of Science with a major in dietetics and institution management, and a major in textiles and clothing.

BASIC PREPARATION FOR TECHNICAL EDUCATION

Offerings of this Division are, in the main, designed to prepare graduates for immediate employment as professional and semi-professional workers in technical home economics and engineering technology. Intensive training for careers in these areas presupposes a good foundation in the applied sciences. Accordingly, thorough high school preparation in physics, algebra, plane geometry, trigonometry, and industrial shop is essential for all who plan to study engineering technology. A knowledge of chemistry and a background in home economics are essential for those who go into technical home economics.

INDUSTRIAL TEACHER EDUCATION AND TRADE AND INDUSTRIAL EDUCATION

This Division offers the required shop work and special subject preparation for students who plan to teach industrial arts and trade and industrial subjects. The industrial arts education program does not prepare graduates for employment as skilled or semi-skilled workers in industry. On the contrary, it provides instruction in a variety of industrial shop activities. This instruction, augmented by appropriate general and professional education, prepares graduates to teach industrial arts in the secondary school.

The trade and industrial education program is designed for those who plan to teach trade and industrial subjects on a vocational basis in the secondary and area vocational-technical schools. In order to pursue this program one must have learned an occupation in an area

vocational-technical school and/or worked in industry in the occupation he is preparing to teach. The industrial arts education and trade and industrial education curricula are listed under caption of the Division of Education.

COOPERATIVE PROGRAM

The Division of Technical Sciences offers a cooperative program in trade and industrial education and engineering technology which enables students to gain practical work experience in industry as



Electronics Engineering Technology graduate testing tape control machine's circuitry at Union Carbide Plant, Oak Ridge, Tennessee.

paid workers during their college years. This program is open to beginning sophomore students (46 quarter hours) with satisfactory academic records at the college and the specific qualifications of cooperating employers. The college does not guarantee the availability of work stations, kinds of work, or amount of compensation received under this program, but attempts to locate desirable employers and place students to their best educational and financial advantages.

Students in the cooperative program work in industry and attend classes at the college during alternating quarters or as arranged with an employer and are required to maintain creditable records, both in school and industry, in order to continue in this program. Persons in this program are considered by the college to be regularly enrolled students while they are employed in industry, therefore, they may not enroll in classes at any educational institution during the employment period. Students must observe all applicable regulations of the employing company and must consider themselves employees of the company while on-the-job.

Students pursuing this program will take five or more years to complete their requirements for the Bachelor's degree, and at the conclusion of the program they are not obligated to accept employment with cooperating companies and neither are the companies obligated to offer them employment.



Electronics Engineering Technology graduate inspecting communications main frame interconnections, at Goddard Space Flight Center, Maryland.

DEPARTMENT OF ENGINEERING TECHNOLOGY

WILBUR H. SULLIVAN, *Acting Head*

Ernest S. Brown
Leroy Brown
John T. Demel
Lester B. Johnson*
John L. Mason
Jay T. Smith
Frank D. Tharpe
Paul C. Tien

Engineering technology embraces the physical sciences, mathematics, and the practices of modern industry which are utilized in the design and construction of the machines, structures, highways, power sources, communication systems, and materials needed to maintain a highly civilized society. The activities of engineering technology are concerned with translating the concepts and theories of professional engineers and scientists into actual devices and products by using laboratory tests to provide data for rational designs. These tests are followed by interpretations of data and preparation of working drawings for use by skilled craftsmen who produce the devices and products.

Thus, to prepare men and women with technical knowledge and skills essential to modern society, the Department of Engineering Technology offers courses in civil, electronics, and mechanical engineering technology. Each of the following programs leads to the degree of Bachelor of Science.

CIVIL ENGINEERING TECHNOLOGY

The curriculum in civil engineering technology is designed to provide ample instruction in those areas of knowledge required for successful performance in these capacities:

Architectural and Structural Draftsman and Designer—plans, designs, and supervises construction of frame, steel, and concrete structures; makes architectural inspections and appraisals for architects and builders.

Highway Engineering Technician—collects and tests soil samples, concrete and other materials to ascertain their physical characteristics for use in highway construction; establishes the location and measurements of points, elevations, lines, areas and contours of land needed for highway construction and prepares hard copy or rough draft drawings of same.

Estimator—determines quantities and costs of materials and labor required to erect structures.

Materials Tester—determines mechanical properties of materials used in the erection of structures and highways.

Surveyor—supervises, directs, and is responsible for the accuracy of the work of an engineering survey party engaged in determining the location and measurements of points, elevations, lines, areas, and contours on the earth's surface for purposes of securing data for building and highway construction, mapmaking, land valuation, mining, or other purposes.

*On leave

CIVIL ENGINEERING TECHNOLOGY CURRICULUM

FRESHMAN YEAR

Descriptive Title	*Course & No.*	*Quarter Hours Credit* Fall	Winter	Spring
CET 103	Slide Rule			2
EDN 100	Freshman Lectures	(R)		
HUM 107-108-109	English Communicative Skills	5	5	5
MATH 107-108	College Algebra & Trigonometry	5	5	
MET 101-102-103	Engineering Drawing I-II-III	5	5	5
P ED 111-113	Seasonal Activities	1	1	
MATH 109	Plane Analytic Geometry			5
		16	16	17

SOPHOMORE YEAR

HUM 131	Introduction to Music & Art			5
MATH 212-213	Analysis I-II	5	5	
MET 202	Statics		5	
MET 203	Dynamics			5
PHY 201	General Physics I	5		
SOC SC 201	Psychological Basis for Hum. Behavior			5
SOC SC 101-102	History of Western Culture	5	5	
P ED 211-212-213	Seasonal Activities	1	1	1
		16	16	16

JUNIOR YEAR

CET 302	Construction Planning, Equipment, and Methods		5	
CET 303	Hydraulics			5
CET 313	Timber Structures			5
CET 333	Surveying I			5
EET 322	Technical Sciences Seminar		1	
CHE 101	General Organic Chemistry	5		
ECO 201	Principles of Economics		5	
MET 321-322	Strength of Materials I-II	5	5	
HIST 300[1]	History of U.S. & Ga.	5		
Elective		5		
		20	16	15

SENIOR YEAR

Descriptive Title	*Course & No.*	*Quarter Hours Credit* Fall	Winter	Spring
CET 401	Structural Steel Design	5		
CET 402	Construction Estimating		5	
CET 411	Soil Mechanics	5		
CET 412	Reinforced Concrete Design		5	
CET 413	Codes, Specifications & Contracts			5
CET 421	Surveying II	5		
CET 422	Highway Engineering		5	
POL SC 200	Government			5
EET 423	Technical Report Writing			2
Elective				5
		15	15	17

Total quarter hours required for graduation 195

MATHEMATICS MINOR

Students majoring in civil engineering technology may obtain a minor in mathematics by taking Mathematics 214 or 404 in addition to the required mathematics sequence.

[1]If the student has satisfied the history requirement, he should take a senior elective.

ELECTRONICS ENGINEERING TECHNOLOGY

The electronics engineering technology curriculum provides instruction in the fundamentals of vacuum tube and semiconductor circuit theory, with emphasis on the application of theoretical principles to actual electronic devices. Graduates of the electronics technology sequence are prepared to function in these positions:

Electronics Draftsman—prepares working drawings of electronic devices.

Research Analyst—engages in design and development activities involved in producing new electronic devices.

Communications Technician—performs accurate tests of the performance of new electronic devices for manufacturers of electronic components; installs, operates, and maintains various types of communications equipment.

ELECTRONICS ENGINEERING TECHNOLOGY CURRICULUM

FRESHMAN YEAR

Descriptive Title	*Course & No.*	*Quarter Hours Credit* Fall	Winter	Spring
CET 103	Slide Rule			2
ED 100	Freshman Lectures	(R)		
EET 103	Electrical Fundamentals			5
HUM 107-108-109	English Communicative Skills	5	5	5
MATH 107-108	College Algebra & Trigonometry	5	5	
MATH 109	Analytic Geometry			5
MET 101-102	Engineering Drawing I-II	5	5	
P ED 111-113	Seasonal Activities	1	1	
		16	16	17

SOPHOMORE YEAR

EET 201	Direct Current Circuits	5		
EET 202	Alternating Current Circuits		5	
EET 203	Vacuum Tubes & Semiconductors I			5
EET 213	Electrical Machinery			5
HUM 131	Introduction to Music & Art			5
MATH 212-213	Analysis I-II	5	5	
P ED 211-212-213	Seasonal Activities	1	1	1
SOC SC 101-102	History of Western Culture	5	5	
		16	16	16

JUNIOR YEAR

ECO 201	Principles of Economics			5
EET 301	Vacuum Tubes & Semiconductors II	5		
EET 302	Electronic Circuits		5	
EET 303	Pulse Circuits			5
EET 312	Network Analysis		5	
EET 313	Receivers			5
EET 322	Technical Sciences Seminar		1	
MATH 306	Computer Programming	5		
PHY 201-202	General Physics	5	5	
Elective				5
		15	16	20

SENIOR YEAR

CET 423	Technical Writing			2
EET 401	Control Systems	5		
EET 411	Industrial Electronics	5		
EET 412	Communication Law		5	
EET 422	Electric & Magnetic Fields		5	
EET 423	Microwaves			5
HIST 300[1]	History of U.S. & Ga.		5	
POL SC 200	Government			5
SOC SC 201	Psychological Basis for Hum. Behavior	5		
Elective				5
		15	15	17

Total quarter hours required for graduation 195

[1]If the student has satisfied the history requirement, he should take a senior elective.

MATHEMATICS MINOR

Students majoring in electronics engineering technology may obtain a minor in mathematics by taking Mathematics 214 or 404 in addition to the required mathematics sequence.

ELECTRONICS-PHYSICS MINOR

Students majoring in mathematics may obtain an electronics-physics minor by taking Elecs. Engineering Tech 201, 202, 203 or 213 in addition to Physics 201 and 202.

MECHANICAL ENGINEERING TECHNOLOGY

The mechanical engineering technology curriculum provides an opportunity for a student to receive comprehensive engineering experience which will enable him to design machinery and to prepare working drawings of the same for industry. A graduate of the mechanical engineering technology program is qualified to assume the responsibilities of these positions:

Machine Designer—designs machines and instruments for industry.

Mechanical Draftsman—drafts from specifications and sketches of proposed mechanical devices and prepares accurate scale drawings of mechanisms.

Mechanical Engineering Technician—works with mechanical engineer on design and production projects.

MECHANICAL ENGINEERING TECHNOLOGY CURRICULUM

FRESHMAN YEAR

Descriptive Title	*Course & No.*	*Quarter Hours Credit* Fall	Winter	Spring
CET 103	Slide Rule			2
ED 100	Freshman Lecture	(R)		
HUM 107-108-109	English Communicative Skills	5	5	5
MATH 107-108	College Algebra & Trigonometry	5	5	
MATH 109	Plane Analytic Geometry			5
MET 101-102-103	Engineering Drawing I-II-III	5	5	5
P ED 111-113	Seasonal Activities	1	1	
		16	16	17

SOPHOMORE YEAR

Descriptive Title	*Course & No.*	*Quarter Hours Credit* Fall	Winter	Spring
HUM 131	Introduction to Music & Art			5
MATH 212-213	Analysis I-II	5	5	
MET 202	Statics		5	
MET 203	Dynamics			5
P ED 211-212-213	Seasonal Activities	1	1	1
PHY 201-202	General Physics	5	5	
SOC SC 101-102	History of Western Culture	5		5
		16	16	16

JUNIOR YEAR

ECO 201	Principles of Economics			5
EET 322	Technical Sciences Seminar		1	
MET 301	Materials & Processes	5		
MET 302	Kinematics		5	
MET 303	Machine Design I			5
MET 312-313	Metal Processing I-II		5	5
MET 321-322	Strength of Materials	5	5	
SOC SC 201	Psychological Basis for Hum. Behavior	5		
Elective				5
		15	16	20

SENIOR YEAR

CET 423	Technical Writing			2
HIST 300[1]	History of U.S. & Ga.	5		
MATH 306	Computer Programming		5	
MET 401	Machine Design II	5		
MET 402	Thermodynamics		5	
MET 403	Fluid Mechanics			5
MET 421-422	Internal Combustion Engines I-II	5	5	
POL SC 200	Government			5
Elective				5
		15	15	17

Total quarter hours required for graduation 195

MATHEMATICS MINOR

Students majoring in mechanical engineering technology may obtain a minor in mathematics by taking Mathematics 214 or 404 in addition to the required mathematics sequence.

[1]If the student has satisfied the history requirement, he should take a senior elective.

DESCRIPTION OF COURSES

CIVIL ENGINEERING TECHNOLOGY

103. SLIDE RULE. A study of the proper methods for using slide rules. *Two class hours a week. Spring. Credit, two quarter hours.*

210. ENGINEERING CALCULATIONS. A course in integrated calculations covering selected topics of applied mathematics in surveying, design, mechanics, hydraulics, and electronics. *Three class hours a week. Credit, three quarter hours. Prerequisites: Mathematics 212 and 213.*

301. CONSTRUCTION MATERIALS. Methods used to manufacture lumber, stone and clay products, binders, concretes, ferrous alloys, and non-ferrous metals and alloys. *Five class hours a week. Fall. Credit, five quarter hours.*

302. CONSTRUCTION PLANNING, EQUIPMENT AND METHODS. Job planning and management, construction equipment, operation analysis, tunneling, cofferdams, piles and pile-driving equipment, steel erection, concrete, and safety engineering. *Five class hours per week. Winter. Credit, five quarter hours.*

303. HYDRAULICS. The analysis and design of hydraulic works. Fluid properties, hydrostatic pressure, fluid motion, analysis of pipe flow, pipe systems, uniform flow in channels, pumps and turbines, and hydraulic models. *Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

304. WATER SUPPLY AND SEWERAGE. The analysis and design of water supply and sewerage works. Pipe flow, systems, and hydrographs. *Prerequisite: Civil Engineering Technology 303. Three class hours a week. Credit, three quarter hours.*

313. TIMBER STRUCTURES. Characteristics and classifications of wood, working stresses, properties, design of structural members, timber connection, codes, and design of problems in light and heavy timber structures. *Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

333. SURVEYING I. A study of surveying instruments; measurements of distances, elevations, angles, and directions; differential and profile leveling; calculating land areas. *Prerequisites: Mathematics 107 and 108. Two class hours and three two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

401. STRUCTURAL STEEL DESIGN. Scientific principles and drafting room practices involved in designing steel structures. *Prerequisite: Civil Engineering Technology 313. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

402. ESTIMATING. A study of the mathematical techniques used to estimate the cost of the land, labor, and materials involved in constructing highways and buildings. *Prerequisite: Civil Engineering Technology 302. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

411. SOIL MECHANICS. A study of the theory of soil mechanics as applied to permeability, consolidation, shear strength; unconfined compression. Atterbery limits, compaction tests, specific gravity, grain size, and classification of soils. *Prerequisite: Chemistry 101. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

412. REINFORCED CONCRETE DESIGN. Scientific principles and drafting room practices involved in designing reinforced concrete structures. *Prerequisite: Civil Engineering Technology 401. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

413. CODES, SPECIFICATIONS, AND CONTRACTS. Laws governing the erection of buildings and the procedures used to express agreement in business transactions concerning building construction. *Prerequisite: Civil Engineering Technology 402. Five class hours a week. Spring. Credit, five quarter hours.*

420. DESIGN PROJECT. A course wherein the student conceives, designs, and develops a complete set of working drawings of a structure. *Prerequisites: Civil Engineering Technology 313, 401 and 412. Two class hours and three two-hour laboratory periods a week. Credit, five quarter hours.*

421. SURVEYING II. A study of land, route, and construction surveying. *Prerequisite: Civil Engineering Technology 333. Two class hours and three two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

422. HIGHWAY CONSTRUCTION AND DESIGN. A study of the fundamentals of highway design including highway layout, foundations and pavements; grade intersections and separations; traffic requirements. *Prerequisites: Civil Engineering Technology 411 and 421. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

423. TECHNICAL REPORT WRITING. Reporting, writing technical reports, illustrating technical reports, research papers, oral reporting, group communication and participation. *Five class hours a week. Spring. Credit, two quarter hours.*

ELECTRONICS ENGINEERING TECHNOLOGY

103. ELECTRICAL FUNDAMENTALS. Soldering techniques, electronic drafting, printed circuit construction, chassis layouts, wiring techniques, and laboratory safety. *Five two-hour lecture-laboratory periods per week. Spring. Credit, five quarter hours.*

201. DIRECT-CURRENT CIRCUITS. A study of the electron theory. *Ohm's law,* series and parallel circuits, Kirchhoff's laws, superposition, Thevenin's theorem, and magnetic circuits. *Prerequisite: Mathematics 108. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

202. ALTERNATING-CURRENT CIRCUITS. A study of waveforms, impedance, resonance, vector loci, Norton's theorem, transformer theory, and Fourier series. *Prerequisite: Electronics Engineering Technology 201. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

203. VACUUM TUBES AND SEMICONDUCTORS I. A study of the Edison effect, dynamic coefficients, transistors, silicon diodes, load lines, and filters. *Prerequisite: Electronics Engineering Technology 202. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

213. ELECTRICAL MACHINERY. Rotating electrical machinery, electronic regulation, and polyphase systems. *Prerequisite: Electronics Engineering Technology 202. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

301. VACUUM TUBES AND SEMICONDUCTORS II. A study of power supplies; potential, current, audio, and RF amplifiers; rectifiers. *Prerequisite: Electronics Engineering Technology 203. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

302. ELECTRONIC CIRCUITS. A study of oscillators, audio and RF circuitry, pulse amplifiers, wave shaping circuits, timers, equivalent, gate, and switching circuits. *Prerequisite: Electronics Engineering Technology 301. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

303. PULSE CIRCUITS. A study of timers; equivalent, gate and switching circuits. *Prerequisite: Electronics Engineering Technology 302. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

310. ENERGY CONVERSION. The generalization, control and conversion of electric energy. Generalized theory of energy conversion devices such as DC, AC machines and transformers. Generalized machine and circuit models, transfer function, flow chart analysis and the application of Laplace transformation. *Prerequisites: Mathematics 212, 213; Electronics Engineering Technology 201, 202, 213. Two class hours a week. Credit, two quarter hours.*

311. ELECTRICAL MEASUREMENTS. Design and construction of electrical measuring devices such as ammeters, voltmeters, wattmeters, bridges, oscilloscopes, time marker generators, and thermocouples. *Prerequisite: Electronics Engineering Technology 203. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

312. NETWORK ANALYSIS. A study of alternating current circuit characteristics and concepts from the standpoint of complex quantities. Development of transient and steady-state responses. Investigate power and energy in polyphase circuits and relationships to electronic circuits and devices. *Prerequisite: Electronics Engineering Technology 202. Five class hours a week. Winter. Credit, five quarter hours.*

313. RECEIVERS. A study of oscillators, antenna systems, squelching circuits, video and synchronous amplifiers; separator, differentiating and integrating circuits, tuners and deflection systems. *Prerequisite: Electronics Engineering Technology 302. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

320. ELECTRONIC PROPERTIES OF MATERIALS. A study of the microscopic structure of materials. Crystal lattice, basis and atomic aggregations. Electronic behavior of insulator, conductor, semiconductor and their band structures. Physical properties of such materials as superconductors, ferroelectrics, diamagnetics, paramagnetics and ferromagnetics. *Prerequisites: Physics 201 and 202. Three class hours a week. Credit, three quarter hours.*

322. TECHNICAL SCIENCES SEMINAR. This seminar covers a wide range of theory, techniques and applications as related to the respective technical programs. Lectures by authorities in various fields and industrial tours are scheduled from time to time in order to stimulate interest in the respective fields. *Two class hours a week. Credit, one quarter hour.*

401. AUTOMATIC CONTROL SYSTEMS. A study of basic principles and concepts of automatic control systems. Transform techniques, transfer functions and transducers. Closed loop systems. Use of the analog computer in control system design. *Prerequisites: Electronics Engineering Technology 302, 303. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

402. AMPLITUDE AND FREQUENCY MODULATION TRANSMITTERS. A study of RF power amplifiers, modulation techniques, transmission lines, exciters, single sideband transmission, reactance tubes, frequency multipliers, noise factors, limiters, bandwidth, and progation. *Prerequisite: Electronics Engineering Technology 313. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

410. ADVANCED NETWORK THEORY. Definition and analysis of lumped, linear, non-linear, time-invariant systems. Complex plane representation and analysis of system response. Discussion of the criterion for the physical realizing of impedance function and the fundamentals of network synthesis. *Prerequisites: Mathematics 212, 213; Electronics Engineering Technology 201, 202, 312. Three class hours a week. Credit, three quarter hours.*

411. INDUSTRIAL ELECTRONICS. Induction heating, X-ray techniques, resistance welding, phase inverters, and electronic temperature control. *Prerequisite: Electronics Engineering Technology 303. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

412. COMMUNICATIONS LAW. Federal regulations governing the use of electromagnetic radiation. *Prerequisite: Electronics Engineering Technology 313. Five class hours a week. Winter. Credit, five quarter hours.*

413. SERVOMECHANISMS. A study of synchro generators, synchro motors, inertia damping, repeater systems, control transformers, and resolvers. *Prerequisite: Electronics Engineering Technology 303. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

420. LOGIC CONCEPT OF DIGITAL COMPUTER. Mathematic foundation of electronic digital computer. Threshold logic concepts. Analysis, synthesis of sequential circuits and practical logic design. *Prerequisites: Mathematics 306; Electronics Engineering Technology 302, 303. Two class hours a week. Credit, two quarter hours.*

422. ELECTRIC AND MAGNETIC FIELDS. A study of electrostatics, including solutions of LaPlace's equation, magneto statics, Maxwell's equations, and electromagnetic laws. *Prerequisite: Electronics Engineering Technology 302, 303. Five class hours a week. Winter. Credit, five quarter hours.*

423. MICROWAVES. A study of wave guides, T-junctions, matching devices, cavity resonators, magnetrons, klystrons, hard tube modulators, and polarization. *Prerequisite: Electronics Engineering Technology 402. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

INDUSTRIAL ARTS EDUCATION

201. WOOD PROCESSING I. Care of tools and machinery, basic hand and machine operations, materials selection, and finishing. *Five two-hour lecture-laboratory periods a week. Fall. Credit, five quarter hours.*

202. WOOD PROCESSING II. A study of the construction of more advanced projects by the use of power tools and machines, and wood-finishing. *Five two-hour lecture-laboratory periods a week. Winter. Credit, five quarter hours.*

203. INDUSTRIAL ARTS DESIGN. Fundamentals of design as applied to the planning and construction of industrial arts shop projects. Working drawings are made of projects designed in class. *Five two-hour lecture-laboratory periods a week. Spring. Credit, five quarter hours.*

212. INDUSTRIAL MATERIALS. Sources, methods of refinement and preparation of tools and materials commonly used in industry. *Five class hours a week. Winter. Credit, five quarter hours.*

300. INDUSTRIAL ARTS FOR ELEMENTARY SCHOOLS. Basic industrial tools, materials and processes which find application in elementary schools. *Five two-hour lecture-laboratory periods a week. Credit, five quarter hours.*

301. ARCHITECTURAL DRAFTING. A study of house planning and the making of architectural working drawings. *Five two-hour lecture-laboratory periods a week. Credit, five quarter hours.*

302. POWER MECHANICS. A study of the theory, operation and servicing of small gas, outboard, and automotive engines. Theoretical consideration is given to turbines, jet engines, turbo-jets, and rockets. *Five two-hour lecture-laboratory periods a week. Winter. Credit, five quarter hours.*

310. INTRODUCTION TO DRIVER EDUCATION. A study of driver and traffic safety education including a critical analysis of traffic accidents, attitude factors, automobile construction, and traffic laws and regulations. Laboratory experiences include psycho-physical testing and behind-the-wheel development of driving skills. *Three class hours and two two-hour laboratory periods a week. Credit, five quarter hours.*

312. GENERAL ELECTRICITY. The nature of electricity, magnetism, forms and sources of electricity, conductors, insulators, electrical measurements, simple electrical low voltage and house wiring, and electrical heating. *Five two-hour lecture-laboratory periods a week. Winter. Credit, five quarter hours.*

320. ADVANCED DRIVER AND TRAFFIC SAFETY EDUCATION. A study of the techniques of organizing, teaching and administering driver and traffic safety education programs at the secondary level. Each enrollee is required to teach at least one learner to drive a car. *Prerequisites: Industrial Arts Education 310, a valid Georgia driver's license and at least two consecutive years of successful driving experience free of a multiplicity of accidents or traffic violations. Three class hours and two two-hour laboratory periods a week. Credit, five quarter hours.*

400. INDUSTRIAL ARTS PRACTICUM. The application of modern industrial practices and concepts to industrial arts teaching. *Prerequisites: Major senior standing. Three two-hour periods a week. Credit, three quarter hours.*

401. INDUSTRIAL ARTS ELECTRONICS I. Test equipment, frequency and audio amplifiers, power supplies, modulation receivers, trouble shooting, and small receiver construction. *Five two-hour lecture-laboratory periods a week. Fall. Credit, five quarter hours.*

402. INDUSTRIAL ARTS ELECTRONICS II. F.M. radio receivers, record changers, public address and audio systems and tape recorders. *Prerequisite: Industrial Arts Education 255. Five two-hour lecture-laboratory periods a week. Winter. Credit, five quarter hours.*

403. SPECIAL INTEREST PROBLEMS. Typical problems related to technical knowledge and the execution of skills as revealed on the field. *Five two-hour lecture-laboratory periods a week. Spring. Credit, five quarter hours.*

405. ADVANCED POWER MECHANICS. A study of a wide variety of power machines with increased emphasis on maintenance. *Prerequisite: Industrial Arts Education 302. Five two-hour lecture-laboratory periods a week. Credit, five quarter hours.*

411. CURRICULUM BUILDING AND SHOP ORGANIZATION IN INDUSTRIAL ARTS EDUCATION. A study of the techniques of curriculum development; shop organization and management. *Five class hours a week. Fall. Credit, five quarter hours.*

413. ELECTRICAL MOTORS. Fundamentals of AC and DC electric motors with emphasis on construction and repair of fractional horsepower motors and devices. *Prerequisite: Industrial Arts Education 312. Five two-hour lecture-laboratory periods a week. Spring. Credit, five quarter hours.*

421. METHODS OF TEACHING INDUSTRIAL ARTS. Lesson plan making, shop demonstrations, use of a variety of instructional media, measuring achievement, and the various methods of teaching industrial arts. *Five class hours a week. Fall. Credit, five quarter hours.*

101. ENGINEERING DRAWING I. A study of drawing instruments, lettering, applied geometry, and orthographic projection. *Five two-hour lecture-laboratory periods a week. Fall. Credit, five quarter hours.*

102. ENGINEERING DRAWING II. Pictorial drawings, auxiliary views, sections; dimensions. *Prerequisite: Mechanical Engineering Technology 101. Five two-hour lecture-laboratory periods a week. Winter. Credit, five quarter hours.*

103. ENGINEERING DRAWING III. Intersections and developments; working drawings, fasteners; gearing and cams; structural, architectural and topographic drawings. *Prerequisite: Mechanical Engineering Technology 101. Five two-hour lecture-laboratory periods a week. Spring. Credit, five quarter hours.*

202. STATICS. A study of Newton's laws, vectors, force systems, equilibrium, friction, and virtual work. *Prerequisite: Mathematics 109. Five class hours a week. Winter. Credit, five quarter hours.*

203. DYNAMICS. A study of kinematics, kinetics, energy, power, momentum, and periodic motion. *Prerequisites: Mathematics 212 and Mechanical Engineering Technology 202. Five class hours a week. Spring. Credit, five quarter hours.*

301. MATERIALS AND PROCESSES. A study of some of the more important materials and processes used by modern industries. *Prerequisite: Mechanical Engineering Technology 103. Five class hours a week. Fall. Credit, five quarter hours.*

302. KINEMATICS. Graphical and analytical methods used to determine displacements, velocities, and accelerations in mechanisms. *Prerequisite: Mechanical Engineering Technology 202. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

303. MACHINE DESIGN I. A study of the design of shafts, springs, screws, belts, clutches, brakes, and connections. *Prerequisite: Mechanical Engineering Technology 302. Three class hours and two two-hour laboratory periods per week. Spring. Credit, five quarter hours.*

312. METAL PROCESSING I. A study of measurements, laying out, bench metal practices, and other elementary phases of metal processing. *Five two-hour lecture-laboratory periods a week. Winter. Credit, five quarter hours.*

313. METAL PROCESSING II. A study of lathes, milling machines, shapers, drill presses, grinders, saws, and other machine tools. *Prerequisite: Mechanical Engineering Technology 312. Five two-hour lecture-laboratory periods a week. Spring. Credit, five quarter hours.*

321. STRENGTH OF MATERIALS I. A study of loading diagrams, force fields, stress, strain, elastic constants and deflection. *Prerequisites: Mathematics 213 and Mechanical Engineering Technology 202. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

322. STRENGTH OF MATERIALS II. A study of indeterminate structures, torsion, combined loads, instability, and fatigue. *Prerequisite: Mechanical Engineering Technology 321. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

323. POWER TRANSMISSION. Design, construction, and maintenance of the devices used to transmit mechanical power in modern automobiles. *Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

330. INDUSTRIAL ENGINEERING I. Introduction to time and motion study, job evaluation, wage incentives and management. *Two class hours and one two-hour laboratory per week. Credit, three quarter hours.*

340. INDUSTRIAL ENGINEERING II. Introduction to plant layout and materials, handling, quality control and management. *Two class hours and one two-hour laboratory per week. Credit, three quarter hours.*

401. MACHINE DESIGN II. A study of lubrication, bearing design, gearing, interference fits, and impact loading; or suitable design problem. *Prerequisite: Mechanical Engineering Technology 303. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

402. THERMODYNAMICS. Fundamental principles of thermodynamics, with emphasis on applications. *Prerequisite: Mathematics 213. Five class hours. Winter. Credit, five quarter hours.*

403. FLUID MECHANICS. A study of hydrostatics, viscosity, dimensionless constants, meters, gages, and fluid flow in channels and pipes. *Prerequisites: Mathematics 213 and Mechanical Engineering Technology 203. Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

410. HEAT TRANSFER. Application of basic principles learned in thermodynamics to heat exchangers, engines, boilers and manufacturing processes. *Prerequisite: Mechanical Engineering Technology 402. Two class hours per week. Credit, two quarter hours.*

412. AUTOMOTIVE ELECTRICAL SYSTEMS. Design, construction, and maintenance of the electrical and electronic devices used in modern automobiles. *Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

413. AUTOMOTIVE CHASSIS. Design, construction, and maintenance of the various elements of the modern automotive chassis. *Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

420. MATERIALS SCIENCE. A continuation of the study of engineering materials. This course would introduce plastics, ceramics, and composite materials, and would include microscopic study of materials in the laboratory. *Prerequisite: Mechanical Engineering Technology 301. Two class hours and one two-hour laboratory per week. Credit, three quarter hours.*

421. INTERNAL COMBUSTION ENGINES I. A study of fuels, combustion, cycles, engine construction, inertia affects and performance parameters. *Three class hours and two two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

422. INTERNAL COMBUSTION ENGINES II. Design, construction, and maintenance of modern automotive engines. *Prerequisite: Mechanical Engineering Technology 421. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

430. USE OF COMPUTER IN ENGINEERING TECHNOLOGY. Introduction to machine language (Fortran IV, etc.) and its utilization for solving technology design problems. Civil-applications will cover problems in structural steel, highway design, reinforced concrete, etc. Electronics-use of computer to solve electric/electronic network problems, automatic control and industrial electronic system designs. Mechanical-applications will be centered around machine design problems. *Prerequisites: Mathematics 306; Civil-senior standing. Electronics-Electronics Engineering Technology 312, 401 or concurrently with Electronics Engineering Technology 401. Mechanical-course to be taken concurrently with Mechanical Engineering Technology 303. Two class hours a week. Credit, two quarter hours.*

TRADE AND INDUSTRIAL EDUCATION

100-200-210-300. COOPERATIVE INDUSTRIAL WORK EXPERIENCE. Student works in industry under the supervision of a college coordinator to gain practical work experience. *Credit, five quarter hours per course.*

213. VOCATIONAL GUIDANCE. A study of the meaning, purposes, techniques, and problems of vocational guidance. *Five class hours a week. Spring. Credit, five quarter hours.*

301. HISTORY OF VOCATIONAL EDUCATION. A study of the development of vocational industrial education in the United States with emphasis on personalities and economic and technical developments that influenced its growth. *Five class hours a week. Fall. Credit, five quarter hours.*

302. INDUSTRIAL EDUCATION CURRICULUM. A study of course making and curriculum development with emphasis on organizing instructional materials for vocational industrial education programs. *Five class hours a week. Winter. Credit, five quarter hours.*

303. SHOP MANAGEMENT. A study of the sources of materials, means of purchasing, methods of inventorying; systems of arranging, installing, maintaining, storing and issuing shop tools and equipment. *Five class hours a week. Credit, five quarter hours.*

311-313-401-402-403. OCCUPATIONAL COMPETENCY EXAMINATION. Graduates of Vocational-technical schools and others with occupational competency in an appropriate trade and industrial teaching field may receive credit by successfully passing occupational competency examinations. *Credit, five quarter hours per course.*

323. OCCUPATIONAL ANALYSIS. A study of the techniques of defining, identifying, classifying, organizing and expressing essential teachable elements of occupations for instructional purposes. *Five class hours a week. Spring. Credit, five quarter hours.*

410. INSTRUCTIONAL AIDS. This course is designed to motivate and teach trade and industrial education teachers to design, construct, and use all types of instructional aids which will facilitate teaching and learning in vocational education. *Five class hours a week. Credit, five quarter hours.*

412. INDUSTRIAL HYGIENE. A study of industrial accidents and their social and economic consequences. Special consideration is given industrial safety. *Five class hours a week. Winter. Credit, five quarter hours.*

416. MODERN TECHNIQUES OF EVALUATION. A study of teacher-made and standardized psychological achievement and personality tests, and the statistical methods employed in their use. *Five class hours a week. Credit, five quarter hours.*

421. METHODS OF TEACHING INDUSTRIAL SUBJECTS. A study of the techniques of making lesson plans, giving shop lectures and demonstrations, writing instruction sheets using a variety of instructional media, and measuring student achievement in trade and industrial education. *Five class hours a week. Fall. Credit, five quarter hours.*

DEPARTMENT OF HOME ECONOMICS

EVANEL R. TERRELL, *Head*
Mollie N. Curtright Teresa A. Anthony Martha M. Corley

PHILOSOPHY AND PURPOSE

The philosophy of the home economics profession is to help stabilize family life as the core of society and constantly reassesses values and goals in terms of academic principles of education. To this end the Department of Home Economics proposes to:

1. Help students develop and clarify values which will help them acquire understanding, skills and abilities which make a constructive contribution to family, home and community life situations now and in the future;

2. Become knowledgeable and concerned about relationships and responsibilities to the well-being of people within the greater society;

3. Prepare students for the professional vocations in dietetics and institutional management, and textiles and clothing;

4. Provide a child development sequence for elementary education majors, enabling them to pursue a teaching career in early childhood education, K-3rd grade; and

5. Provide an interdisciplinary social science major outreach with a minor in the disadvantaged and handicapped family.

GENERAL PROGRAM

The following four-year academic curricula in the Department of Home Economics lead to the Bachelor of Science Degree in two areas of specialization, Dietetics and Institutional Management, and Textiles and Clothing.

A total of 195 quarter hours is required in all home economics curricula.

AREA IV CORE CURRICULUM FOR ALL HOME ECONOMICS STUDENTS

		Cr. Hrs.
Art 130	Principles of Art	5
Home Ec 101	Orientation in Home Economics	1
Foods 212	Food Preparation	5
Foods 319	Meal Management	3
F L 406	Family Relationships	5
T & C 152	Elementary Textiles	5
T & C 231	Clothing Construction	5
		29

TERMINAL COURSE

Students who for reasons of time or finance may not be able to spend four consecutive years in college may enroll in a two-year course in Dressmaking and Tailoring. Upon the completion of 96 quarter hours a certificate of proficiency is earned.

MINOR

Upon consent of the Department Head, a student may elect any sequence of courses to qualify for a minor field.

PRE-PROFESSIONAL MOTIVATION AND ENRICHMENT

The perspective of students in the Department of Home Economics is broadened and enriched through required field trips, junior internships and experience affiliations with selected food service institutions and social welfare and textile merchandising establishments. The student defrays the cost of all local and special trips.

Since 1950 the Department of Home Economics has supported and directed the Savannah State College Chapter of the American Home Economics Association.

DIETETICS AND INSTITUTIONAL MANAGEMENT

Students who major in Dietetics and Institutional Management comply with a curriculum prescribed by the American Dietetics Association. Upon graduation students are eligible for appointments as student dietetic interns in A.D.A. approved hospitals, educational or industrial institutions. Upon completion of the 5th year of training, career positions as registered dietitians (R.D.) are available in specialized branches of the Federal Government, public, private and educational institutions.

DIETETICS AND INSTITUTIONAL MANAGEMENT CURRICULUM

FRESHMAN YEAR

Descriptive Title	*Course & No.*	*Quarter Hours Credit* Fall	Winter	Spring
ART 130	Applied Art Principles			5
CHEM 101-102	General Inorganic Chemistry	5	5	
ED 100	Freshman Lectures	(R)		
H EC 101	Introduction to Home Economics	1		
HUM 107-108-109	English Communicative Skills	5	5	5
MATH 107	College Algebra & Trigonometry			5
P ED 111, 113	Seasonal Activities	1	1	
SOC SC 101-102	History of Western Culture	5	5	
		17	16	15

SOPHOMORE YEAR

BIO 126	Invertebrate Zoology	5		
EC 201	Principles of Economics	5		
FDS 212	Principles of Food Preparation		5	
FDS 319	Meal Management			3
HUM 207-208-209	World Literature	3	3	3
P ED 211-212-213	Seasonal Activities	1	1	1
PHY 201	General Physics		5	
SOC SC 201	Psychological Basis for Human Behavior			5
POL SC 200	Government		5	
T & C 152	Elementary Textiles	5		
T & C 231	Pattern Construction			5
		19	19	17

JUNIOR YEAR

ACT 201	Principles of Accounting	5		
ART 330	Interior Design		5	
BIO 306	General Bacteriology			5
BIO 307	Anatomy and Physiology		5	
CHEM 307	Organic Chemistry	5		
I M 319	Purchasing and Buying		5	
NUTR 316	Elementary Nutrition	5		
HIST 300'	History of the U.S. & Ga.			5
EDUC 317	Educational Psychology			5
		15	15	15

SENIOR YEAR

BUS ADM 412	Personnel Management			5
CHEM 404	Biochemistry	5		
FAM LIFE 406	Family Relationships		5	
FOODS 431	Experimental Foods	5		
FOODS 335	Quantity Food Production & Mgt			5
INST MGMT 433	Organization and Management	5		
NUTR 351	Nutrition and Dietetics		5	
NUTR 451	Diet Therapy			5
HOME EC 471	Senior Seminar		1	
Elective			5	
		15	16	15

Total quarter hours required for graduation 195

Recommended Electives:

Foods 400 - Demonstration Cookery	5 qtr. hrs.
Nutr 461 - Methods of Teaching Nutrition	3 qtr. hrs.
Fam Life 445 - Home Management Problems	5 qtr. hrs.
Fam Life 351 - Child Development and Guidance	5 qtr. hrs.

The Dietetics and Institutional Management curriculum is approved by the American Dietetic Association as a pre-professional training course for student dietetic internships, a fifth year of training prior to professional status. The internship specialization may be completed in certified programs located in hospitals, public health agencies, college residence halls, commercial institutional food services or medical clinics.

TEXTILES AND CLOTHING

FRESHMAN YEAR

Freshman courses are the same as in the Dietetics and Institutional Management curriculum.

SOPHOMORE YEAR

Descriptive Title	*Course & No.*	*Quarter Hours Credit* Fall	Winter	Spring
ACT 201	Principles of Accounting	5		
ART 232	Costume Design		5	
BIO 126	Invertebrate Zoology	5		
EC 201	Principles of Economics			5
FDS 212	Principles of Food Preparation		5	
FDS 319	Meal Management			3
HUM 207-208-209	World Literature	3	3	3
P ED 211-212-213	Seasonal Activities	1	1	1
SOC SC 201	Psychological Basis for Human Behavior		5	
T & C 152	Elementary Textiles	5		
T & C 231	Pattern Construction			5
		19	19	17

JUNIOR YEAR

ART 330	Interior Design		5	
CHEM 307	Organic Chemistry	5		
CHEM 310	Textile Chemistry			5
FAM 342	Consumer Economics			5
HIST 300[1]	History of the U.S. & Ga.	5		
POL SC 200	Government		5	
T & C 351	Advanced Dressmaking		5	
T & C 357	Tailoring			5
	Elective	5		
		15	15	15

[1]If the student has satisfied the history requirement through examination, he should take an elective.

SENIOR YEAR

Descriptive Title	*Course & No.*	*Quarter Hours Credit* Fall	Winter	Spring
ART 420	Creative Design			5
BAD 306	Retailing			
or				
BAD 325	Principles of Marketing		5	
CH DEV 351	Child Development and Guidance		5	
FAM 406	Family Relationships	5		
T & C 355	Draping and Dress Design	5		
T & C 450	Advanced Textiles		5	
T & C 457	Textiles in Home Furnishings			5
T & C 465	Field Problems in Clothing	5		
Electives				5
H EC 471	Senior Seminar		1	
		15	16	15
	Total quarter hours required for graduation			195

Recommended Electives:

T & C 315 - Family and Children's Clothing	5 qtr. hrs.
Art 340 - History of Costume	5 qtr. hrs.
T & C 463 - Advanced Tailoring	5 qtr. hrs.
Art 346 - Advanced Costume Design	5 qtr. hrs.
Fam Life 445 - Home Management Problems	5 qtr. hrs.

Textiles and clothing majors are prepared to find careers in merchandising and retailing in department stores and special shops as personal shoppers, fashion coordinators, fashion buyers and retail promotion salesmen. Sufficient technical background is given for a career as a textile tester. Individual enterprises such as interior decorator or fabric shop specialist may be established. Art 152, 232, with additional clothing design in T&C 231, 355 and 463, offer enriched training for prospective design students. Art 340 and Art 430 are additional electives.

DRESSMAKING AND TAILORING

Intended for graduates of approved high schools, this program is designed for persons who desire to specialize in dressmaking or become owners of small shops. A certificate is earned by two-year graduates.

DRESSMAKING AND TAILORING CURRICULUM

FIRST YEAR

ACT 201	Principles of Accounting	5
ART 130	Applied Art, Principles	5
ART 232	Costume Design	5
BAD 105	Introduction to Business	3
BAD 225	Business Writing	3
EC 201	Principles of Economics	5
HUM 107-108-109	English Communicative Skills	15
MATH 107	Business Mathematics	5
T & C 152	Elementary Textiles	5
T & C 231	Pattern Construction	5
		56

SECOND YEAR

ART 330	Interior Design	5
BAD 304	Salesmanship	5
BAD 306	Retailing	5
or		
BAD 325	Principles of Marketing	
T & C 350	Advanced Dress Making	5
T & C 355	Draping and Dress Design	5
T & C 357	Tailoring	5
T & C 463	Advanced Tailoring	5
T & C 465	Merchandising	5
		40
	Total quarter hours required	96

INTERDISCIPLINARY PROGRAMS

In addition to the Home Economics degree programs, the Department offers two interdisciplinary programs as described below.

Minor in Early Childhood Education

The training of teachers for early childhood education is a function of the Department of Home Economics in cooperation with the Division of Education. The inclusion of nursery schools and kindergartens in public education provides avenues for immediate employment as teachers upon graduation. The Early Childhood Education curriculum is listed under the Division of Education.

To be certified and recommended for the Early Childhood Education Certificate, the following specialized courses are required:

Ch Dev 351 Child Development and Guidance
Ch Dev 453 Activities and Materials for Early Childhood Education
Ch Dev 454 The Child and His Family
Nutr 452 Nutrition for Children

Early Childhood Education Curriculum

CH DEV 351	Child Development and Guidance	5
CH DEV 453	Activities and Materials for Early Childhood	5
CH DEV 454	The Child and His Family	5
CH DEV 460	Special Problems of the Pre-school Child	5
F L 406	Family Relationships	5
NUTR 452	Child Nutrition	5
		30

Minor in Disadvantaged and Handicapped Families

This program is designed for social science majors whose interest is in improving the life-style of low income families and children, and other disadvantaged and handicapped persons.

Disadvantaged and Handicapped Families Curriculum (Minor Option)

Recommended Elective Sequence:

Ch Dev 351 Child Development and Guidance
Foods 301 Family Foods
F L 400 Contemporary Problems of Business, Home, and Industry
F L 342 Consumer Economics
Ch Dev 454 The Child and His Family
F L 406 Family Relationships
T & C 300 Contemporary Clothing Selection

DESCRIPTION OF COURSES

CHILD DEVELOPMENT

351. CHILD DEVELOPMENT GUIDANCE. The physical, mental, emotional, and social development of children in early childhood and the interrelating environmental factors influencing the development of the young child. Special reference to techniques and guidance. *Prerequisites: Education 317 or equivalent. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

453. ACTIVITIES AND MATERIALS FOR EARLY CHILDHOOD EDUCATION. Principles underlying space needs and the selection and uses of materials for creative experiences; with stories, music, literature, art, nature study and other creative media for meeting developmental processes of the young child. Scheduled supervised classroom experience in nursery school, kindergarten or early elementary grades, devoted to observation, participation, teaching and professional involvement commensurate with students readiness. *Prerequisites: Education 216, 317, 429, 305, completion of English requirements and major field subjects. Winter and Spring. Credit, five quarter hours.*

454. THE CHILD AND HIS FAMILY. The interrelationships of the child and the family through the stages of the family's life cycle. Emphasis on effects of home and family conditions on development of children. *Five class hours a week. Winter. Credit, five quarter hours.*

460. SPECIAL PROBLEMS OF PRESCHOOL CHILDREN. Study of the social and emotional adjustment of "normal" children, ages 2-5. Emphasis placed on balancing those factors which are preventable and help in resolving difficulties; the teacher's insight and understanding of the child's personality, needs and problems. *Prerequisite: Child Development 351. Five class hours a week. Spring quarter. Credit, five quarter hours.*

FAMILY LIFE

342. CONSUMER ECONOMICS. Consideration is given to pertinent factors of production, marketing, purchasing, and maximum use of household goods. *Five class hours a week. Winter and Spring. Credits, five quarter hours.*

400. PERSONAL CONTEMPORARY PROBLEMS OF THE HOME, BUSINESS AND INDUSTRY. A broad interdisciplinary course in general education, designed for students with limited backgrounds in business, industry, and advantaged family living. The course covers topics in American industrial and business organization, international economy, general investments, and essentials for and satisfying family living. *Three class hours a week. Fall, Winter, and Spring. Credit, 3 quarter hours.*

401. NEWER TECHNIQUES IN FAMILY LIVING. Consideration of newer concepts of family living in a changing world. Problems concerning sociological pressures on the family as a consumer in an affluent society. *Five class hours a week. Credit, five quarter hours.*

406. FAMILY RELATIONSHIPS. Designed to acquaint students with the significance of marriage, the relationships between various members of the family group, and the degree to which the interplay of personality within the family is affected by culturally conditioned attitudes and needs. *Five class hours a week. Fall. Credit, five quarter hours.*

445. HOME MANAGEMENT PROBLEMS. (Formerly Home Management Residency.) A Laboratory course designed to prepare young people for family living in a changing society. Problems in living are developed on three levels of income with complementary environmental backgrounds. Experience offered five days per week from breakfast through dinner. Laboratory fees cover cost of meals. Juniors by consent of instructor. *Prerequisites: Foods 212, 319 and F. L. 406. Fall, Winter, and Spring. Credit, five quarter hours.*

FOODS

212. PRINCIPLES OF FOOD PREPARATION. Composition, nutritive value, cost, and processing of different foods. Chemical and physical properties of foods are emphasized in the techniques of basic food preparation and the development of food standards. *Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

300. FAMILY FOODS. A lecture demonstration course on the selection, preparation and use of food in relation to health and well-being of the individual family and the needs of society. Joint planning by faculty and students on special projects. Non-majors only. *One class hour and two two-hour laboratory periods a week. Credit, three quarter hours.*

319. MEAL MANAGEMENT. Planning, preparation, and serving attractive and appropriate meals for the family, according to its nutritive needs; stressing time, energy, and money management. *Prerequisite: Foods 212. One class hour and two two-hour laboratory periods a week. Spring. Credit, three quarter hours.*

334. THE SCHOOL LUNCH. Practical experience in planning nutritious menus for larger groups at various age levels. The preparation and service of foods in quantity. Facilities of the College Cafeteria and the Nursery School are used for practice work. *Prerequisite: Foods 319. One class hour and two two-hour laboratory periods a week. Spring. Credit, three quarter hours.*

335. QUANTITY FOOD PRODUCTION AND MANAGEMENT. Experience in production of food in large quantity; use of steam and power equipment; menu making for institutions. Computation of costs, menu pricing, and portion control. *Prerequisites: Food 212, 319. Two class hours and three two-hour laboratory periods a week. Spring. Credit, five quarter hours.*

371. COOKING FOR SPECIAL OCCASIONS. Study and preparation of foods for various types of party groups. Some problems in food dishes of other nations. *Prerequisite: Foods 319 or Departmental approval. One class hour and two two-hour laboratory periods a week. Spring. Credit, three quarter hours.*

400. DEMONSTRATION COOKERY. Principles and techniques of demonstrations of appliances and food products. *Prerequisites: Foods 319. Departmental approval. Two class hours and three two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

431. EXPERIMENTAL FOODS. Laboratory work in solving practical problems in food preparation; the study of scientific methods and factors involved in establishing standards for cooked foods. *Prerequisite: Chemistry 307 and eight hours of foods. Two class hours and three two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

HOME ECONOMICS

101. INTRODUCTION TO HOME ECONOMICS. Development and scope of home economics as a field of study and its contribution to education for home and family living. Examination of opportunities in the profession and those related to Home Economics. *One class hour a week. Credit, one quarter hour.*

471. HOME ECONOMICS SENIOR SEMINAR. Designed to accommodate topical presentations of current literature; modern trends and developments in foods and nutrition and in textiles and clothing. *Winter or Spring quarter. Credit, one quarter hour.*

INSTITUTIONAL MANAGEMENT

319. PURCHASING AND BUYING. Production, distribution, and storage of supplies to serve as a basis for purchase of such commodities for quantity use. Includes techniques for buying canned, fresh, frozen, and dried commodities in quantity. Field trips required. *Five class hours a week. Fall. Credit, five quarter hours.*

353. INSTITUTIONAL EQUIPMENT. A study of lay-outs for institutional use; selection of equipment, including materials, construction, installation, care, and relative cost. Field trips required. *Five class hours a week. Winter. Credit, five quarter hours.*

433. ORGANIZATION AND MANAGEMENT. The organization and administration of various types of institutions. Field trip required. *Five class hours a week. Spring. Credit, five quarter hours.*

460. CATERING. Food production, menu making, cost computation, and service for parties. *Two class hours and one two-hour laboratory period weekly. Credit, three quarter hours. Prerequisites: Foods 319, 335 or by consent of instructor.*

NUTRITION

316. NORMAL NUTRITION. A study of the science of nutrition and its application to the nutritional requirements of individuals at various age levels. Practical problems in dietary calculations. *Prerequisite: Chemistry 307. Three class hours and two two-hour laboratory periods a week. Fall. Credit, five quarter hours.*

351. NUTRITION AND DIETETICS. The chemistry of nutrition in relation to metabolic processes. *Prerequisites: Nutrition 316, Chemistry 101, 102, 107. Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

451. DIET THERAPY. Hospital administration as related to hospital dietetics. Application of principles of nutrition to the normal diet and to abnormal conditions; planning and preparation of special diets. *Prerequisites: Nutrition 351, Chemistry 101, 102, 317, 404. Two class hours and three two-hour laboratory periods a week. Field work in hospitals to be arranged. Spring. Credit, five quarter hours.*

452. NUTRITION FOR CHILDREN. The study of normal growth patterns and the principles involved in meeting the nutritional requirements of preschool and early school age children. Laboratory work in nursery school and elementary school lunchroom. *Three class hours and two two-hour laboratory periods a week. Winter. Credit, five quarter hours.*

455. FIELD WORK IN NUTRITION. Opportunities to observe and participate in the activities of welfare and public health agencies with problems relating to the promotion of better nutrition and the general welfare of individuals and selected groups. Field problems arranged. *One class hour and two two-hour laboratory field trips a week. Winter and Spring. Credit, three quarter hours.*

461. METHODS OF TEACHING NUTRITION. Techniques and materials for presenting instruction in nutrition to persons of all age levels. Practical experience in presenting materials provided through work with elementary school teachers and pupils and disadvantages or handicapped adults. *Prerequisite: senior status, consent of instructor, Nutr. 316 and Art 130. Three class hours a week. Winter. Credit, three quarter hours.*

463. NUTRITION SEMINAR. Critical study of historical and current literature on energy metabolism, proteins, fats, carbohydrates, vitamins, and minerals. *Prerequisite: Nutrition 351. Two class hours a week. Spring. Credit, two quarter hours.*

TEXTILES AND CLOTHING

152. ELEMENTARY TEXTILES. The study of structure, composition, physical and chemical properties of animal, plant and man made fibers. Fundamental weaves, yarns, finishes with reference to uses and care that affect consumer choices. *Prerequisite: Chemistry 101, 102, 310. Three class hours and two two-hour laboratory periods a week. Fall. Five quarter hours.*

231. CLOTHING CONSTRUCTION. The construction and design of commercial patterns and methods of alteration. Understanding of and utilization of basic construction techniques in relation to fabric design, special types of fabrics and their application to garment construction. *Prerequisite: T & C 152. Two class hours and three two-hour laboratory periods a week. Spring. Five quarter hours.*

300. CONTEMPORARY CLOTHING SELECTION. Experience is provided in the use of commerical patterns, fitting and clothing construction. Problems based on personal interests with aspects of sociological and psychological influences. Non-majors only. *One class hour and two two-hour laboratories a week. Three quarter hours.*

315. FAMILY AND CHILDREN'S CLOTHING. Designed to help students gain further experience with clothing problems in families, with special emphasis on the needs of growing children, and other family members; selection, construction, renovation and repair of clothing. Study of certain psychological, sociological and economic factors which may influence family clothing choices. *Elective. Fall. Two class hours and three two-hour laboratory periods a week. Five quarter hours.*

351. ADVANCED DRESSMAKING. Experiences in the planning, fitting and construction of designer garments. Some flat pattern methods and related garment construction; making a pattern for and constructing selected dress design in appropriate fabric. Emphasis on workmanship. *Prerequisites: T & C 152, 231. Two class hours and three two-hour laboratory periods a week. Winter. Five quarter hours.*

440. DRAPING AND DRESS DESIGN. Increased understanding of garment fit and control of fabric grain is acquired through the techniques of draping and for flat pattern design. Advanced technique and skill in clothing construction are developed through the creation and execution of an original design. *Prerequisites: Art 130, 323; T & C 231, 351 or equivalents. Two class hours and three two-hour laboratory periods a week. Winter. Five quarter hours.*

357. TAILORING. A course designed to introduce students to tailoring techniques and methods construction of tailored garments using woolen fabrics. *Prerequisite: T & C 231, 351. Two three-hour laboratory periods and two one-hour lecture periods a week. Fall. Five quarter hours.*

450. ADVANCED TEXTILES. A study of factors which predetermine fabric appearance and performance in use. Analysis based on appropriate physical and chemical tests for quality differences in fabrics due to variation of fibers, content, structure, and finishes. Suitability of fabrics for specified uses. *Prerequisites: Chemistry 310, T & C 152. Three one hour class lectures and two two-hour laboratory periods a week. Five quarter hours.*

457. TEXTILES IN HOME FURNISHINGS. A study of the factors related to the materials, selection, comparative cost, performance and care of textiles and fabrics used in home furnishings. *Prerequisites: Chemistry 310, T & C 152, Art 232, 330. Four class hours and one two hour laboratory period a week. Winter. Five quarter hours.*

463. ADVANCED TAILORING. Continuation of techniques and processes used in tailoring 357 with construction of coat, suit and tailored dress. Use of hand details and appropriate finishes for problems. *Prerequisites: T & C 351, 357. Two lectures and three two hour laboratory periods. Elective. Winter or Spring. Five quarter hours.*

465. FIELD PROBLEMS IN CLOTHING AND MERCHANDISING. A practicum associated with the financial management, administrative practices, human relations and policy development of clothing store operation. By special arrangement, the laboratory may be taken during the summer before the senior year. Off-campus experience is arranged through the Department of Home Economics. *Three weeks seminar period, 5 hours per week, required before going on the field for 60 hours of experience or training.*

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